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Volume 152 No. 24 December 15, 1947

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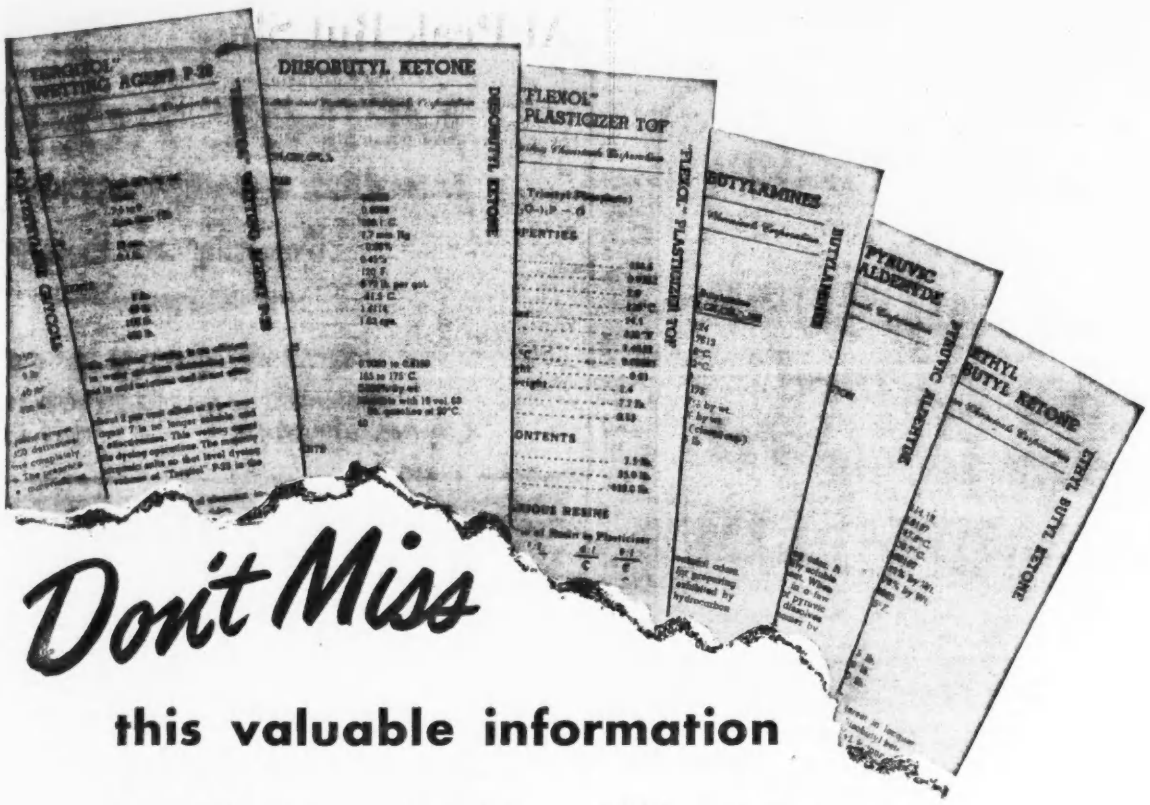

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Oil, Paint and Drug Reporter

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Volume 152 No. 24 New York 7, N. Y. December 15, 1947

Quinidine Controls Continuance Urged

H. B. McCoy, director of the Office of Materials Distribution of the Department of Commerce, told the Senate judiciary committee last week that controls over distribution of quinidine should be continued by the government and possibly tightened, depending upon supply developments in the next few days.

Present controls over this material would expire by law February 29, 1948. Controls are now exercised only over stocks of the government whose use is limited for treatment of cardiac cases. Whether these controls should be broadened to cover the end use of quinidine which is privately owned will depend upon results of the sessions now going on respecting 1948 supplies.

The quinine situation, however, has improved to a point where control over that material appears to be no longer necessary, Mr. McCoy stated. He recommended that authority over quinine be eliminated in any extension of the second decontrol act and subsequently said that the department is now preparing an order revoking the quinine restrictions in M 31.

As to quinidine, Mr. McCoy said: "Our best information indicates that supplies will fall considerably short of essential requirements during the full year 1948. It is on this basis that we recommend the continuance of present authority over government-owned materials. At this time we are not in a position to recommend the extension of controls to cover other than government-owned stocks. We are now discussing potential supplies for the United States during the year 1948 with the Dutch. We will not be in a position to report definitely on their position until some time later, at which time we may wish to amend this recommendation.

"Inasmuch as cinchona bark is a source for obtaining quinidine and may be purchased by the government when adequate supplies of quinidine are not available, I recommend the continuation of the existing authority as long as the supply of quinidine is not adequate for our needs."

In his testimony to the committee holding hearings on extension of the second war powers act, Mr. McCoy also recommended continuance of present controls over tin and tin products, antimony, nitrogeous fertilizer materials and export priorities.

Alien Property Seizure Powers Tempered by Court

The Supreme Court of the United States last week ruled unanimously that the Alien Property Custodian does not have the right to hold the property of foreign nationals unless the owner of the property is found to be an enemy or an ally of an enemy. The decision was rendered in a suit against the government brought by Uebersee Finanze-Korporation, A. G., a Swiss concern which had been seized by the custodian early during the war under the Trading with the Enemy Act. The decision opens the way to owners of other seized property to bring suit for its return.

It was indicated by APC that the ruling will delay government plans for the disposal of such other vested properties as General Aniline & Film Corporation and Schering Corporation until the trial courts determine whether the companies were, in fact, enemy controlled, even though they were incorporated in a neutral country, or until the owners of the companies agree to allow the government to dispose of the vested property and recover the proceeds later in the event the courts find in their favor.

While the decision went against the government on the right to retain control of the property, the court at the same time gave the government the right to submit evidence of enemy control. The question of the extent of enemy holdings necessary to constitute an enemy taint is left for later decision.

Lead Base Bullion Being Offered by USCC

Reconstruction Finance Corporation has announced that its subsidiary, U. S. Commercial Company has for sale approximately 320 short tons of Korean lead base bullion and will entertain offers for the purchase of this material if received on or before December 22. Prospective purchasers may obtain particulars from USCC, 811 Vermont avenue, N. W., Washington 25, D. C.

Fissionable Ores Rights On U.S. Lands Reserved

OPD Washington Bureau

President Truman last week issued an executive order directing that a clause be contained in all future land disposal contracts of the government reserving deposits of fissionable materials on such lands for the use of the United States.

Provision is also contained in the reservation permitting agents of the government to enter upon the land at any time to prospect for and remove such deposits of fissionable materials. The reservation is to apply in the disposition of any land of the government in excess of one acre, and which is devoted primarily to a residential use.

Ethyleneglycol Export Licensing Rules Revised

Beginning with the first calendar quarter of 1948, the provisions of the consolidated license procedure as set forth in Comprehensive Export Schedule No. 24, pages 41-43, Section II, Part 5, are amended to provide that a separate consolidated license application must be submitted for each country in Group K for which authorization is desired to export the following commodities:—

Ethyleneglycol and glycols; phenol-formaldehyde resins in powder, flake or liquid form (scrap included), and in sheets, plates, rods, tubes and other unfinished forms.

The Office of International Trade of the Department of Commerce announced that holders of valid outstanding consolidated licenses for the exportation of these commodities may continue to export against these licenses until the full amount licensed for export has been shipped or until the validity period of the license expires, whichever is sooner.

Oleomargarin Taxes Repeal Again Asked in Congress

Legislation for the repeal of Federal taxes on oleomargarin was introduced in the Senate last week by Senator J. William Fulbright of Arkansas. The bill was similar to a number of others that have been introduced in the house this session.

Indicating that he would seek enactment of the measure, Senator Fulbright issued a 2,400-word memorandum in which he contended that there is no present-day justification for the oleomargarin taxes. If the theory of the tax was applied generally, he said, Congress would have to tax atomic energy to protect the producers of coal and oil.

Fertilizer 1948 Supplies Seen At Peak But Short of Demand

OPD Washington Bureau

Intensive investigation of the prospective supplies of fertilizers to meet the needs of the nation's farmers in the 1948 growing season will be resumed tomorrow at hearings conducted by the fertilizer subcommittee of the house committee on agriculture. Information gleaned at last week's hearings, which were scheduled for two days but stretched into four, can be summarized as follows:—

There will be more fertilizer available to American farmers in 1948 than ever before —estimates ranging up to a high of 18,000,000 tons—although supplies will still fall far short of demand. Some change in the pattern of distribution will take place because of material shortages facing production of solid forms of nitrogen but there will be sufficient supplies of solutions to meet these deficits. Chilean nitrate imports are moving according to schedule and no difficulties are foreseen on this score.

Attending the hearings were representatives of the fertilizer producers, their trade associations, and officials of Departments of Agriculture, Commerce, War, State and the United States Maritime Commission. No legislative action is expected to result from the hearings which were described by Representative Anton Johnson of Illinois, chairman, as purely exploratory and for the purpose of bringing Congress up to date on the current fertilizer situation.

The first day of the hearings was devoted to the problems of North Carolina, the complaint being that the state appears to be getting short changed in the amount of solid nitrogen materials expected for the 1948 growing season. Spokesmen for the state said that one of the reasons being given for declining supplies of nitrate of soda is that production at the Hopewell, Va., plant of the Barrett Division of Allied Chemical & Dye Corporation is being cut back because of the plant's inability to get soda ash.

F. T. Techter, Barrett vice-president, said that the plant produced 210,000 tons of nitrate of soda last year and that an equal amount will be produced this year. He added, however, that most of the production goes for chemical use rather than for fertilizer, but that the plant is increasing both its production and deliveries of solutions for fertilizer uses.

Transportation, Labor Difficulties

Ralph B. Douglass, vice-president of the Smith-Douglass Company, Norfolk, Va., testified that the 1947-48 plant food supplies "will reach new all-time peaks," but will not be sufficient to meet farmers' desire. He warned that production may be hampered by transportation difficulties and labor troubles.

Horace M. Albright, president of the United States Potash Company, New York, also stressed the shortage of boxcars, and

—*Continued on page 40*

WAA to Sell Ordnance Works Worth $500,000,000

War Assets Administration announced last week that it was ready to receive proposals for the purchase of ten Army ordnance works which originally cost the government $500,000,000. Included in the plants and equipment are production and processing facilities at one or more locations for ammonia oxidation, sulphuric acid concentration, oleum, nitric acid, sellite, solvent recovery, cotton or wood pulp nitration, finished smokeless powder, TNT, DNT, tetryl, pentolite, and ammonium picrate.

WAA is preparing brochures describing in detail the buildings, equipment and land available in the forthcoming sale. These, together with special bid forms, may be obtained from the chief of the chemicals and light metals branch, Real Property Office, WAA, in Washington. Bids will be received for purchase at a fixed price, or for a substantial cash payment with the gross receipts from resale to be divided equitably between the purchaser and the government.

The works to be sold in this program are the following:—West Virginia Ordnance Works, Point Pleasant, W. Va.; Plum Brook Ordnance Works, Sandusky, Ohio; Kentucky Ordnance Works, Paducah, Ky.; Oklahoma Ordnance Works, Pryor, Okla.; Weldon Springs Ordnance Works, Weldon Springs, Mo.; New York Ordnance Works, Baldwinsville, N. Y.; Lake Ontario Ordnance Works, Youngstown, Ohio; Gopher Ordnance Works, Rosemont, Minn.; Badger Ordnance Works, Baraboo, Wisc., and Keystone Ordnance Works, Meadville, Pa.

Bids on the West Virginia and the Plum Brooks works will be received by WAA not later than January 23; on the Kentucky Ordnance Works and the Oklahoma and Weldon Springs plants by February 13, and on the others by March 5.

Inter-American Affairs Institute Headed by Myer

Dillon S. Myer was appointed president of the Institute of Inter-American Affairs last week. He will take office January 1. Mr. Myer presently is commissioner of the Public Housing Administration. He will replace Col. Arthur R. Harris, who is retiring for reasons of health.

Commerce Dept. Reviews Current Fertilizer Status

OPD Washington Bureau

New supply records will be established during the current fertilizer year for each of the three principal fertilizer materials—nitrogen, phosphate and potash—but supplies will still fall short of meeting all farmers' requirements, the Department of Agriculture reported last week in its annual review of the fertilizer situation.

About 816,000 tons of commercial nitrogen will be available as fertilizer this year, compared with about 785,000 tons used last year, an increase of about 4 percent. Phosphate for fertilizer will total 1,850,000 tons (P_2O_5), compared with 1,745,000 tons last year, up 6 percent. The supply of potash for fertilizer will be about 900,000 tons (K_2O), whereas 854,000 tons were available last year, an increase of 5 percent.

The report said that the United States is now using more than twice as much nitrogenous fertilizer as before the war, and more than any other country. Estimated domestic production of commercial nitrogen for fertilizer this year is 690,000 tons, compared with 665,000 tons last year, and the highest wartime production of 417,000 tons in 1945. The prewar (1934-38) average production was only 166,000 tons.

The increase of commercial production this year over last year will be substantially all in the form of nitrogen solutions. Commercial production of the solid forms of nitrogen is expected to be about the same as last year. Solutions now comprise a little more than one-third of the total commercial output of fertilizer nitrogen in the

—*Continued on page 40*

Price Trend Continues Downward

Largely because of weakening of market support for animal fats, the price trend of chemicals, oils, and drugs continued downward last week. A cut in denatured alcohols also contributed to the decline, which amounted to 0.6 point. The general level for the week was the same as that for the corresponding week last year. The several divisions compared with last year as follows:—Higher—heavy chemicals, acids, coaltar chemicals, dyestuffs and tanstuffs, paint materials, drugs and fine chemicals, and fertilizer materials; lower—oils, fats, and waxes, botanical drugs, and essential oils. Trading was light in all the lower groups, but basic weakness was characteristic of only the fatty materials.

Yearend easing came into the chemical markets as a whole. Heavy tonnage materials are well committed for 1948; those of lesser volume are being bought mostly for short terms. Higher prices are coming or expected on sodium silicates, sodium chlorate, oxalic acid, refined sulphur, and some phosphorus salts. As a general thing, production is not expected to sag; neither is it expected to be any more nearly adequate in the bigger areas for some months. Equipment failures would do much harm.

Coaltar intermediates were again among the materials advanced in price. This group was not affected as widely as some predicted, but prices were upped on two chloroanilins, one nitroanilin, and two anisidins. Aromatic materials were mostly inactive pricewise; menthol was reduced. Sumac was cheapened, but the price of the extract was raised. Red pepper was dearer; black was cheaper.

Vegetable fatty oils remained in quietness. Consumers had quite low ideas of values. Copra and coconut oil were cut in that direction. A reversal of form was the advance in the price of castor beans. Carnauba wax went down along with greases, tallow, and such.

OPD Price Index

The Oil, Paint and Drug Reporter's relative record of prices for chemicals and related materials is currently as follows:—

Dec. 12, 1947	Dec. 5, 1947	Dec. 12, 1946
150.1	**150.7**	**150.1**

The base of the OPD Price Index is the average of prices in 1926 and 1930, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1947	1946	1945	1941
January	150.9	135.3	133.0	107.8
February	151.9	135.4	133.2	110.3
March	151.9	135.2	132.7	111.9
April	152.3	134.9	132.2	115.5
May	145.9	135.1	132.5	118.2
June	143.9	135.4	132.5	121.9
July	142.5	137.7	133.5	125.5
August	140.4	136.6	133.9	128.2
September	141.9	127.0	134.0	130.4
October	146.1	143.1	133.5	133.2
November	149.7	149.2	134.0	135.1
Year's average	*147.3	138.8	133.8	123.2

* Eleven months.

Fats and Oils Export Quotas Cut for Jan.-Mar.

The Department of Agriculture has allocated 87,000,000 pounds of fats and oils for the first quarter of 1948, which compares with 145,800,000 pounds for the same period this year. The new allocation consists of 63,800,000 pounds of fats and oils for commercial shipment and 23,200,000 pounds of shelled peanuts on an oil content basis to be supplied by the Commodity Credit Corporation.

The commercial shipments include 34,500,000 pounds of lard; 2,200,000 pounds of margarin; 12,700,000 pounds of shortening and other edible oils; 300,000 pounds of drying oils; 8,100,000 pounds of other inedible fats and oils; and 6,000,000 pounds of soap.

The peanuts will be supplied to the U.S.-U.K. zone in Germany, to U. S. areas in the Pacific and to other recipients in the government program. Supplies of other fats and oils will be available from the unshipped balance of 120,000,000 pounds of fats and oils allocated for the fourth quarter of 1947.

Calco Acts to Terminate Black Market in Dyes

The Calco Chemical Division of the American Cyanamid Company, Bound Brook, N. J., taking cognizance of the current practice of reselling dyes for export at exorbitant prices, has notified its customers that it will discontinue sales to those who divert goods into the black market. In a letter to its customers the company declared:—

"For consumers to order dyes for the purpose of resale to black markets is not only a breach of contract but a breach of good faith, and if we can establish any such practice against anyone buying dyes from us, we shall take immediate action and promptly discontinue selling such parties.

"There is undoubtedly a responsibility on the part of the American dyestuff industry to assist as much as possible in the rehabilitation of business in a number of foreign countries which, because of the world situation find themselves entirely without dyes. However, such exports must be kept in bounds and should not be via black markets."

Fuel Shortage in East Probed by Industry Group

A committee of ten representatives of the petroleum industry was appointed last week by the Senate interstate commerce subcommittee on oil to work on the problem of the shortage of fuel, particularly heating oil, in New England and the Eastern states.

The committee was formed by Senator Charles Tobey, of New Hampshire, chairman of the oil subcommittee, following an all-day meeting of representatives of the petroleum producers, distributors, railroads and government officials on the shortage problem. It will formulate its remedies and report to Senator Tobey by December 18.

Diamyl Phenols Offered By Koppers' Chemical Div.

The Koppers Company, Pittsburgh, announces that diamyl phenols are now available from its chemical division. This is the first of a series of alkylated aromatic compounds scheduled for production at the division's Oil City, Pa., plant.

The diamyl phenols, as now produced, are a mixture of the isomers of the diamylated phenols. The amyl substituents include both secondary amyl and tertiary amyl groups attached mainly in the 2,4-positions. This material is an oily, light straw-colored liquid which is said to be miscible with both aliphatic and aromatic hydrocarbons, and is essentially insoluble in water and in 10 percent aqueous solutions of alkali hydroxides.

The product is suggested for use in the production of lubricating oil additives, modified phenolic resins, synthetic detergents, plasticizers, rubber chemicals, and pharmaceuticals.

Bakelite Plans Vast Increase in Production

The most extensive program for the expansion of plastics manufacturing facilities in the history of the Bakelite Corporation, a unit of Union Carbide & Carbon Corporation, New York, is now in progress and is scheduled for completion next year. Facilities for production of all plastics and resins marketed by the company will be increased by 50 to 60 percent. Increases on individual products will range from 30 to 400 percent.

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Sherwin-Williams Builds Solvent Extraction Plant

Completion of a new $750,000 solvent extraction plant in Cleveland, which will make the Sherwin-Williams Company one of the world's major producers of castor oil, is announced by Arthur W. Steudel, president of the company. The plant is part of a $6,000,000 program of improvements which the company has undertaken since the end of the war.

Employing a new extraction process developed by Sherwin-Williams research chemists, the new plant is considered to be an important step in revolutionizing the production of castor and other oils. Compared with 95 percent heretofore, the new process is said to obtain 99½ percent of all available oil from flaxseed, cocoa nuts, soya beans, castor beans and other types of oil-bearing nuts, seeds and beans.

Processing has been simplified to a one-step operation, as against a two-step method previously used, and the quality of the oil obtained is claimed to be considerably higher. The new process makes the equipment usable interchangeably for the processing of all types of raw oil-bearing vegetable products.

Mellon Institute Starts Physical Chemistry Dept.

The Mellon Institute, Pittsburgh, has appointed Dr. John R. Bowman head of its newly established department of research in physical chemistry, which will conduct fundamental investigations in its domain for professional and public benefit. Dr. Bowman has been a member of the institute since 1935 on the multiple fellowship of the Gulf Research & Development Company.

Hercules Solvents Available

Hercules "Dipentene" and "Solvenol," specialty solvents for paints and varnishes, are again available in full supply, according to the Hercules Powder Company, Wilmington, Del. Both solvents are used for natural and synthetic resins and polymerized oils used in oleoresinous finishes. They are useful also in the formulation of quick drying enamels and varnishes, according to the company, and act as wetting agents for pigments.

Peanut Marketing Quotas Favored by 88% of Growers

Approximately 88 percent of the peanut growers who voted in last Tuesday's referendum favored marketing quotas for the peanut crops of 1948, 1949 and 1950, according to preliminary tabulations announced by the Department of Agriculture. The substantially complete returns received from fourteen states in which the referendum was held show that 84,738 producers favored quotas, while 11,398 voted against quotas. The agricultural adjustment act requires that quotas be approved by a two-thirds vote before they can be effective.

Reichhold Plans Spending $10,000,000 for Expansion

Reichhold Chemicals, Inc., Detroit, will spend approximately $10,000,000 for expanding and enlarging the company's production facilities, according to Henry H. Reichhold, chairman of the board.

The expenditure will be used to increase production capacity at plants in Detroit; Elizabeth, N. J.; New York; South San Francisco; Tuscaloosa, Ala.; Seattle; Liverpool, England; Paris; Sydney; Rio de Janeiro; Milan, Italy, and Zurich, Switzerland, and for the building of additional plants in the United States to increase the available amounts of certain scarce chemicals to eliminate retarding influences in the company's production of synthetic resins, chemical color pigments, phenolic plastics and industrial chemicals.

Mr. Reichhold also reported that Fred Grosius, treasurer, and T. K. Haven, president in charge of finance, have been elected to the board of directors, and that H. W. Mason, jr., and E. A. Terray have been elected vice-president in charge of purchases and vice-president in charge of exports, respectively.

Atlantic Refining Names Hersberger to New Post

Atlantic Refining Company, Philadelphia, has appointed Dr. Arthur B. Hersberger manager of its recently organized chemical products division. The new division was organized to coordinate the activities of the company in the fields of chemical research, chemical manufacturing and chemical sales.

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Proprietary Association Views Industry Research

The preliminary report of a survey being conducted by the Proprietary Association of America indicates that its 160 active members invest some $14,000,000 annually on research and scientific product control, according to a report by Kenneth A. Bonham, president of the Emerson Drug Company, Baltimore, and president of the association, at a recent meeting of its scientific section.

Mr. Bonham said that the preliminary report is based on figures received from twenty member companies, which represent a cross section of the membership. He added that these twenty constitute only 12 percent of the membership, and the figures will vary somewhat when the survey is completed, but that the preliminary report is generally indicative of what the members are doing in that field.

Mr. Bonham quoted figures estimating that, based on net sales for 1946, the industry is now spending about 4 percent of net sales for research and product control. This, he stated, is an increase of 1 percent over the 1945 figures, when the last survey was completed. He added that the association estimates that its members produce about 80 percent of the proprietary medicines in the country.

A paper prepared by Christopher H. Costello and Calvin L. Butler, of Lydia E. Pinkham Research Laboratories, reported on further studies of the chemical and pharmacological value of *Piscidia Erythrina*. The paper reported that the present commercial article represents the stem bark and not the root bark, and that all parts of the plant contain a depressant principle, with

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Naphthalene Plant Fire Not Hampering Deliveries

OPD Washington Bureau

Deliveries of crude and refined naphthalene by the Reilly Tar & Chemical Company will not be too seriously hampered by the destruction of its Granite City, Ill., plant in a fire last week, according to the company. The crude material will be shipped out of Chicago, Cleveland, or Granite City itself, where the warehouse was undamaged, and the refined deliveries will be taken over by the Newark, N. J., plant.

The fire, which occurred December 9, started outside the plant, but was fanned by high winds in its direction. The company declared that equipment manufacturers had offered prompt service so that the plant can be speedily rebuilt.

Monsanto Producing New Insecticide in Large Lots

A new insecticide, said to be three times as powerful as its German predecessor but no more expensive, is now being produced in commercial quantities by Monsanto Chemical Company, St. Louis. To be known as "Nifos-T," the chemical contains 40 percent tetraethyl pyrophosphate. The company says it is effective against aphids, mites and certain crop pests difficult or impossible to control otherwise.

Foreign Market Lists

Lists of foreign outlets for chemicals and related materials and consumer goods recently compiled by the Commercial Intelligence Division of the United States Department of Commerce include the following, which are available from the division at $1 for a list for any one country.

Chemical importers and dealers, Sweden.

Fertilizer manufacturers and exporters, Chile.

Hospitals, Hong Kong; Netherlands; Panama; Peru; Tunisia.

Naval stores importers, dealers, producers and exporters, Dominican Republic; Mexico; Sweden.

Petroleum industry, Netherlands Indies; Netherlands West Indies, New Zealand.

Photographic supply dealers and photographers, Angola.

Plastic materials manufacturers, molders, laminators, and fabricators of plastic products, China.

Soap manufacturers, Argentina.

Market Reports

Crude coconut oil was weak and was offered down to 22c. per pound, tankcars, f.o.b. Pacific Coast for December shipment, a net decline of 2c. per pound for the week. Buying interest was slow. Copra was quoted at $255 per short ton, c.i.f. Pacific Coast.

Naphthas—Effective today in the midcontinent area, another producer of these materials late last week announced price boosts of 1½c. per gallon on five grades of naphtha. The move was attributed to the general advance of 50c. per barrel on the price of crude oil.

CMRA Studies Fuel Synthesis Processes

Hydrocarbon synthesis processes will become the principal source of many of the basic oxygen-containing organic chemicals, particularly those used in the cellulose plastics and acetate rayon industries, long before they attain major importance as sources of fuel, Frederick W. Sullivan, jr., consultant, told a meeting of the Chemical Market Research Association in the Biltmore hotel, New York, on December 10.

The total weight of all products from one hydrocarbon synthesis plant, such as the ones being constructed at Brownsville, Tex., and in the Hugoton field in Kansas, will approach 1,000,000,000 pounds annually, a considerable fraction of which is composed of important organic chemicals, according to Mr. Sullivan, who formerly was associated with the Standard Oil Company of Indiana and the Barrett Division of the Allied Chemical & Dye Corporation.

He added that the two plants now under construction will have a considerably greater capacity than the nine German plants using the Fischer-Tropsch process with the cobalt catalyst.

"As is usually the case when the petroleum industry yields by-products useable in the chemical industry, their production is very large in comparison with chemical industry requirements," he said. "This results from the fact that the tonnage produced by the petroleum industry is about fifty times that of the organic chemical industry.

"When ten hydrocarbon synthesis plants are installed, and this is regarded by some as a probability in the next five years, their liquid fuel products, while providing only 3 percent of the current gasoline consumption, will be accompanied by by-products including, for example, acetic acid nearly equal to the total current synthetic production, assuming the same capacity and product distribution as the Brownsville plant.

"Since the situation with respect to acetic acid is but an example of the general condition with respect to the simpler oxygen-containing organic chemicals with two or more carbon atoms, consideration of the broad situation is important to those concerned with the basic organic chemicals, the cellulose plastics and fibres, aliphatic oxygenated solvents, and, in fact, the whole

—*Continued on page 38*

Leon D. Eldot Retires From L. Sonneborn & Sons

L. Sonneborn & Sons, Inc., New York, has announced the retirement, effective December 31, of Leon D. Eldot, manager of its building products division. Mr. Eldot has said that he will announce his future plans shortly.

He recently completed a term of office as president of the New York Paint, Varnish and Lacquer Association and has actively cooperated with the Paint Travellers Salesmen's Association in connection with the advancement of the welfare of the industry through its sales representatives. He has also lectured at New York University in connection with its paint dealers course.

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating—not by telephone, please—with the OPD office:—

Calcium carbide, Fortaleza, Brazil (AW-14).
Candles, Marche-au-Flameune, Belgium (AW-4).
Caustic soda, London, England (AW-6); Fortaleza, Brazil (AW-14); Sao Paulo, Brazil (AW-16).
Drugs, Genoa, Italy (AW-11).
Dyes, Bombay, India (AW-7).
Edible oils, Marcinelle, Belgium (AW-5).
Fats, animal, Antwerp, Belgium (AW-9).
Fertilizers, Rio de Janeiro, Brazil (AW-15).
Industrial chemicals, Buenos Aires, Argentina (AW-3); Sao Paulo, Brazil (AW-12).
Ink, permanent and ineradicable, San Jose, Costa Rica (AW-2).
Lard, Campina Grande, Brazil (AW-17).
Lubricating oils, Marche-au-Flameune, Belgium (AW-4).
Maleic anhydride, Sassenheim, Netherlands (AW-8).
Milk powder, Sao Paulo, Brazil (AW-12).
Mineral oils, London, England (AW-10).
Oilseeds, Antwerp, Belgium (AW-9).
Pearl essence, London, England (AW-6).
Pharmaceutical chemicals, Buenos Aires, Argentina (AW-3); Genoa, Italy (AW-11); Salvador, Brazil (AW-13).
Phthalic anhydride, Sassenheim, Netherlands (AW-8).
Pigments, Sassenheim, Netherlands (AW-8).
Plastic materials, Fkunoku, Japan (AW-1); London, England (AW-6).
Potash, Fortaleza, Brazil (AW-14).
Soap, Marche-au-Flameune, Belgium (AW-4).
Soda ash, London, England (AW-6); Fortaleza, Brazil (AW-14).
Spices, Marcinelle, Belgium (AW-5).
Vegetable oils, Antwerp, Belgium (AW-9).

Washington Talks It Over

The OPD Observer

The Republican congressional leadership's decision to junk most of President Truman's ten-point anti-inflation program and substitute voluntary industry allocations with some assistance in the form of lifting application of the antitrust laws to concerted actions, is being applauded by many in the government as well as those in industry.

At the time Mr. Truman submitted his program, one could only speculate how broad were the intentions of the administration. Through persistent questioning of the big guns in government by the Congressional committees the scope of the program rapidly unfolded to reveal a request for virtual return of wartime powers over industry—and probable intentions to use the powers in some directions more broadly than during the war. As the new developments came to light, more disturbed became those in government who really know industry's problems.

The experts have been wondering who has been advising the big guns on their statements to the committees. A case in point was soda ash. Secretary of Commerce Harriman told one committee that unless the industry voluntarily saw to it that soda ash was channeled to the most essential uses he would use the allocation powers to see that it was done. Even during the war, soda ash was not placed on allocation simply because the problem was too great. Soda ash finds its way into too many uses to be measured out accurately and equitably from Washington.

Controls over petroleum and its products is another instance where the suggestion of rationing and price fixing aroused the ire of the experts. Some of them went so far as to threaten to resign if an attempt was made to give effect to the program as it was outlined by the top officials to the committees.

Fertilizer Fantasies

Ideologically, as well as physically, the atmosphere of the various hearings during the past week on matter fertilizery was hot and stuffy. Confusion ruled even where the atmosphere did not reach. Statistical data particularly were confused, although some sound estimates were presented on what it would take in food and fertilizer to keep Europe going until an indefinite sometime of an indefinite something.

Doubtless it was the atmosphere rather than statistical confusion that made a Baltimore newspaper December 9 make Ralph Douglass, of Norfolk, Va., say that "farmers will have two-and-one-half times as much fertilizer as last year." Such volume would be enough to provide Europe, Asia and Africa with almost a sufficiency. But the question is how much can be sent without dangerously depriving farmers in the United States and those whom they must feed here. Mr. Douglass, of course, said that the supply would be about 2½ percent larger.

Inflation Attack Outlined

Senator Homer Capehart of Indiana has an anti-inflation campaign that he is trying to get his Republican colleagues in Congress to accept as a substitute for the ten-point program of the President. The trouble with Mr. Truman's program, he says, is that it is based on the old wartime philosophy of controls that won't produce a single additional porkchop, ear of corn, bushel of wheat, or pair of shoes.

The senator wants Congress to encourage the farmers to produce by offering them an incentive to increase acreages by 20 percent, and to get more production out of industry by lengthening the workweek from forty to forty-four hours before overtime payments start. He would compensate the workers for the loss of income by increasing their income tax exemptions.

Insofar as increasing the acreage under cultivation goes, Mr. Capehart would do it with money. He would advance loans to farmers to buy more fertilizer, seeds, and breeding stock, and for the purchase of machinery. He would loan money to fertilizer companies to expand production and allocate raw materials to them.

Ship Operation by Government

President Truman has asked Congress to authorize the continued operation of government-owned vessels by the government until June 30, 1949. He warns that, if the government has to get out of the ship-operating business by February 29, 1948, the present deadline, it is almost certain to lead to a breakdown of vital shipping operations.

Continued government operation of ocean-going vessels is of particular importance to producers of alcohol and suppliers of nitrogen because it assures their receiving necessary supplies of molasses from Cuba and sodium nitrate from Chile during the coming year. In view of the bigger profits obtainable in the heavy shipping services to Europe, some of the vessels now engaged in the molasses and nitrate service probably would be pulled out of these runs when the vessels were turned over to private hands.

Congress hasn't said yet what it will do in the matter, but it is a better than even bet that it will agree to Mr. Truman's request—at least insofar as continuing government operation for some period beyond next February 29.

Margarin Tax Puzzle

The house committee on agriculture has a number of bills pending before it to reduce or repeal the tax on oleomargarin. The latest repealer was dropped in the hopper by Representative Ellsworth B. Buck of New York. It is H.R. 4470.

Why these bills always find their way to a committee that is anything but sympathetic to the oleomargarin industry has long been a puzzle. The question always arises as to why these bills don't go to the ways and means committee since they deal with taxes. It gets all other kinds of tax bills, so it should be expected to get these.

To find the answer it is necessary to go back into the history of the tax. When originally imposed the embuttered dairy bloc convinced the House that it was not a tax in the sense of a revenue-raising measure, but rather it is a tax for regulation purposes. Since it had to do with a food, it should be considered by the committee on agriculture.

It's a historical fact that once a committee of Congress gets original jurisdiction over a law or subject, it seldom if ever releases its grip. This is the case with the oleomargarin tax. The agricultural committee originated the tax initially, got it

—*Continued on page 32*

Toluene Plant Sold

A government-owned chemical plant in Beaumont, Tex., operated during the war by the Magnolia Petroleum Company for the production of nitration grade toluene, has been sold for $360,000 to the Petrol Terminal Corporation, Philadelphia, by War Assets Administration. The purchase was made through the Reconstruction Finance Corporation on a small business priority.

Association Meeting Dates

American Drug Manufacturers Association, Mount Washington hotel, Bretton Woods, N. H., June 7-10.
American Institute of Chemists, Pennsylvania hotel, New York, May 8.
American Institute of Chemical Engineers, New York, November 7-10.
American Pharmaceutical Manufacturers Association, midyear meeting, Waldorf-Astoria hotel, New York, December 15-17.
American Society of Hospital Pharmacists, San Francisco, August 8.
Animal Health Institute, St. Paul, Minn., April 19-20.
Association of American Soap and Glycerine Producers, Waldorf-Astoria hotel, New York, January 28-29.
Chemical Market Research Association, Mayflower hotel, Washington, D. C., January 22.
Drug, Chemical and Allied Trades Section, New York Board of Trade, Waldorf-Astoria hotel, New York, March 11.
Essential Oil Association, Warwick Hotel, New York, January 9.
Federal Wholesale Druggists Association, Pennsylvania hotel, New York, March 1-4.
Greater New York Safety Council, Pennsylvania hotel, New York, April 13-15.
National Association of Chain Drug Stores, Palm Beach Biltmore hotel, Palm Beach, Fla., January 11-14.
National Association of Corrosion Engineers, Jefferson hotel, St. Louis, Mo., April 5-8.
National Association of Purchasing Agents Waldorf-Astoria hotel, New York, May 31-June 2.
National Confectioners Association, Waldorf-Astoria hotel, New York, June 20-25.
Natural Gasoline Association, Texas hotel, Fort Worth, Tex., March 24-26.
National Plastics Exhibition, Grand Central Palace, New York, September 27-October 1.
National Petroleum Association, Cleveland hotel, Cleveland, Ohio, April 21-23.
National Wholesale Druggists Association, Palm Beach Biltmore hotel, Palm Beach, Fla., April 3-8.
New York BIMS, annual dinner, January 22.
Northeastern States Weed Control Conference, Commodore hotel, New York, February 12-13.
Proprietary Association, Claridge hotel, Atlantic City, N. J., May 24-26.
Southern Paint and Varnish Production Club, Atlanta-Biltmore hotel, Atlanta, Ga., March 11-12.
Toilet Goods Association, Waldorf-Astoria hotel, New York, May 18-20.

Drug Trade Conference Retains Unanimity Rule

Washington, Dec. 10, 1947

By a vote of 5 to 4 of its constituent national associations, the National Drug Trade Conference in its annual meeting today tabled a motion to amend its by-laws to drop the requirement of unanimous consent for the election of new members and the adoption of resolutions. The amendment would have made a two-thirds vote sufficient in the two matters.

The voting on the motion to table the suggestion, taken after much discussion, was as follows:—

Ayes:—American Association of Colleges of Pharmacy, American Drug Manufacturers Association, American Pharmaceuti-

Carson P. Frailey
Reelected President

cal Association, American Pharmaceutical Manufacturers Association, Proprietary Association.

Noes:—Federal Wholesale Druggists Association, National Association of Boards of Pharmacy, National Association of Retail Druggists, National Wholesale Druggists Association.

Objection to the proposed amendment was largely on the basis of aversion to having a constituent association bound to a policy to which it was opposed. It was felt by the majority that the conference would wholly fail of its purpose to work for a meeting of minds throughout the drug industry if its policies and programs were set by other than complete agreement among its members. There was a deal of favor for the submitting of the proposal for action by the constituent associations, but the motion to table eliminated that step.

On the recommendation of the committee on resolutions, the president was instructed to appoint a special committee to study the rules and regulations of the conference with reference to their suitability and satisfactoriness in relation to its functioning. As this committee, which is to report at the 1948 meeting, President Frailey has tentatively appointed the following:—

Robert L. Swain, for the American Association of Colleges of Pharmacy; Leslie D. Harrop, for the American Drug Manufacturers Association; George D. Beal, for the American Pharmaceutical Association; John L. Hammer, for the American Pharmaceutical Manufacturers Association; P. H. Costello, for the National Association of Boards of Pharmacy; James L. Hoge, for the Proprietary Association.

Resolutions Adopted

In resolutions unanimously adopted upon presentation by the committee on resolutions the conference—

1. Urged all members of the drug industry to give maximum financial support to the American Foundation for Pharmaceutical Education in its endeavor to provide a fund for fellowships directed to the providing of teachers and research workers.

2. Asked the American Foundation for Pharmaceutical Education to consider further the possibilities of establishing a sizeable investment fund for the support of its aims.

3. Requested the American Pharmaceutical Association to compile a directory of pharmacists and the pharmaceutical industry.

4. Favored research in the general subject of retail handling costs.

5. Expressed appreciation for the survey of fair trade practices conducted by the National Association of Chain Drug Stores as

—*Continued on page 56*

Sherwin-Williams Elects F.J.Squires as Secretary

F. J. Squires has been elected secretary of the Sherwin-Williams Company, paint manufacturer, Cleveland, succeeding T. G. Murphey, who has retired after forty-three years' service with the company.

Snow flakes
and
sleigh-bell
music
lacy frosting on window-panes
bright holly
on the door
Yule log and mistletoe and a gay and
PRINCELY TREE Merry Christmas!
AND A HAPPY NEW YEAR

Henry W. Denny
O. R. Brunelow
N. B. Bliger
A. Wesley Taylor
James A. Farley
J. V. O'Leary
J. C. Bruning
H. E. Emery
J. Maylor
L. R. Post
P. M. Broderick
F. V. Alexander
A. C. Ruedeke
C. R. Sutton
R. W. Martin

A. B. Sweetzer
Bernard F. Nachtman
E. B. Driscoll
G. H. Snider
J. G. Dewar
Robert L. Hutchins
James McLamore Jr.
George W. Murray Jr.
Frank H. Wiebe
Joseph R. Glennon, Jr.
Post Reynolds
Walter H. Junker
H. S. Piker
Paul Young
J. H. Brinton Marple

C. R. Woodfill
Harold Wofford
Ewo Zangalfi.
Jack W. Burns
Larry H. Shaw
Daniel B. Cuff.
William J. Eppum
Charles O. Goodale
Frank Dalian
Robert F. Taylor
Edward F. Arnold
William E. Evans, Jr.
John B. Stabbert

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Industrial Application Of Chemicals

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Ammonium Thioglycolate

Cosmetic—Setting agent in cold permanent-waving solutions for treating the hair.

Amylnaphthalene

(Monoamylnathpthalene)

Chemical—Organic compound of amber color, miscible with most organic solvents, having no action on copper and iron, non-toxic, not affected by water, dilute acids, or alkalies under ordinary conditions, unsaponifiable.

Medium for constant-temperature baths. Reactant in organic syntheses.

Fats, Oils, and Waxes—Coupling agent for certain vegetable oils.

Ink—Vehicle for several types of inks.

Miscellaneous—Medium for constant-temperature baths in various operations.

Paint, Varnish, and Lacquer—Vehicle for certain vitrifiable colors.

Petroleum—Coupling agent for mineral oils.

Benzothiazyl Disulphide

Rubber—Accelerator in vulcanizing.

1:2:3-Benzotriazole

Chemical—Intermediate in organic syntheses.

Dye—Intermediate in dyestuff syntheses.

Photographic—Restrainer in photographic processes.

Butyldiglycol Carbonate

Ceramic—Solvent-plasticizer in compositions used as coatings for protecting and decorating ceramic products.

Electrical—Solvent-plasticizer in insulating compositions used for covering wire and in making electrical machinery and equipment.

Glass—Solvent-plasticizer in compositions used in the manufacture of nonscatterable glass and as coatings for protecting and decorating glassware.

Leather—Solvent-plasticizer in compositions used in the manufacture of artificial leathers and as coatings for protecting and decorating leather goods.

Metal-Fabricating—Solvent-plasticizer in coating compositions used for protecting and decorating metallic articles.

Miscellaneous—Solvent-plasticizer in coating compositions used for protecting and decorating various kinds of articles

Paint, Varnish, and Lacquer—Solvent-plasticizer in paints, varnishes, lacquers, enamels, and dopes.

Paper—Solvent-plasticizer in compositions used in the manufacture of coated papers and as protective and decorative coatings for articles made of paper or pulp.

Plastics—Solvent-plasticizer in making laminated-fiber and molded articles, and various plastics.

Rubber—Solvent-plasticizer in compositions used as coatings for decorating and protecting rubber goods.

Stone—Solvent-plasticizer in compositions used as coatings for decorating and protecting artificial and natural stone.

Textile—Solvent-plasticizer in compositions used in the manufacture of coated fabrics.

Wood—Solvent-plasticizer in compositions used as protective and decorative coatings on woodwork; plastic compositions used for many filling and repairing purposes on wood.

Dibromoacetone

Resins—Starting point (Brit. 542972) in making resins by heating with an aqueous mixture of urea and an aliphatic aldehyde, or a compound engendering an aldehyde.

Dibutyl Phthalate

(Additional uses supplementary to those in the book, "Uses and Applications of Chemicals and Related Materials.")

Insecticide and Fungicide—Toxicant for mites which infest rats and permit them to spread such dread diseases as bubonic plague, cholera, and typhus.

Rubber—Plasticizer for buna N, chlorinated rubber, neoprene.

Resins—Plasticizer for vinyl compounds, where they are applied as films in the coating of fabrics.

Textile—Plasticizer for vinyl coatings for fabrics.

Oil, Fats Consumption: July-Sept.

Factory consumption of primary oils, fats, fatty acids, and related materials in the third quarter of 1947 totaled 2,097,307,000 pounds, according to the Bureau of the Census. Consumption in the major specified lines of industry included the following quantities:—

	Pounds
Edible products other than salad oils	452,459,000
Paint and varnish and printing ink	146,284,000
Processing (fat splitting, winterizing, pressing, sulphonation)	219,418,000
Refining	617,534,000
Soap	509,145,000

Factory consumption of individual materials was reported as follows:—

Oils

	Crude	Refined
Babassu—	Pounds	
Refining	1,710,000	.....
Soap	6,100,000	481,000
Other uses	2,000	708,000
Castor, crude—	No. 1	No. 3
Refining	.....	310,000
Fat-splitting	.....	503,000
Sulphonation	390,000	1,114,000
Soap	2,402,000	20,000
Paint and varnish	1,046,000	14,639
Linoleum and oilcloth	223,000	283,000
Printing ink	75,000	35,000
Lubricants and greases	57,000	45,000
Other uses	10,522,000	1,481,000
Castor, processed—	Dehydrated	Sulphonated
Soap	.....	65,000
Paint and varnish	6,942,000	152,000
Linoleum and oilcloth	169,000	.....
Printing ink	30,000	7,000
Lubricants and greases	4,000	11,000
Other uses	476,000	567,000
Coconut—	Crude	Refined
Refining	111,442,000	.....
Fat-splitting	8,404,000	4,849,000
Sulphonation	129,000	3,000
Shortening	.....	25,269,000
Oleomargarin	.....	13,292,000
Other edible products	.....	4,343,000
Soap	79,600,000	45,175,000
Paint and varnish	3,000	123,000
Other uses	4,356,000	4,156,000
Cod—		All grades
Sulphonation		607,000
Paint and varnish		12,000
Other uses		1,669,500
Codliver—		All grades
All uses		2,275,000
Corn—	Crude	Refined
Refining	63,117,000	.....
Sulphonation	55,000	51,000
Winterizing for salad oil	.....	15,383,000
Shortening	.....	210,000
Oleomargarin	.....	2,431,000
Other edible uses	.....	1,146,000
Soap	80,000	19,000
Paint and varnish	2,000	.....
Other uses	326,000	380,000
Cottonseed—	Crude	Refined
Refining	117,286,000	.....
Sulphonation	.....	45,000
Winterizing for salad oil	.....	86,094,000
Shortening	.....	47,520,000
Oleomargarin	.....	68,012,000
Other edible uses	.....	1,574,000
Soap	.....	35,000
Paint and varnish	1,000	6,000
Other uses	130,000	937,000
Fish—		All grades
Fat-splitting		2,031,000
Sulphonation		1,539,000
Soap		6,187,000
Paint and varnish		7,052,000
Linoleum and oilcloth		1,049,000
Printing ink		50,000
Lubricants and greases		272,000
Other uses		12,269,000
Fishliver, other than cod—		All grades
Sulphonation		28,000
Lubricants and greases		2,000
Other uses		1,147,000
Linseed—		All grades
Fat-splitting		292,000
Soap		64,000
Paint and varnish		84,394,000
Linoleum and oilcloth		21,808,000
Printing ink		3,925,000
Lubricants and greases		44,000
Other uses		10,351,000
Marine mammal—		All grades
Refining		.....
Paint and varnish		2,000
Printing ink		2,000
Lubricants and greases		614,000
Other uses		4,197,000
Neatsfoot—		All grades
Refining		6,000
Sulphonation		146,000
Soap		2,000
Printing ink		2,000
Lubricants and greases		23,000
Other uses		597,000
Oiticica—		All grades
Paint and varnish		1,874,000
Linoleum and oilcloth		30,000
Printing ink		14,000
Other uses		311,000
Oleo—		All grades
Shortening		276,000
Oleomargarin		748,000
Other edible uses		220,000
Soap		.....
Lubricants and greases		4,000
Other uses		17,000
Olive—	Edible	Inedible
Edible uses	62,000	.....
Soap	1,000	48,000
Other uses	15,000	7,000
Palm—	Crude	Refined
Soap	285,000	.....
Lubricants and greases	22,000	4,000
Other uses	10,733,000	789,000
Palmkernel—	Crude	Refined
Soap	.....	[2] .....
Peanut—	Crude	Refined
Refining	24,177,000	.....
Sulphonation	.....	390,000
Winterizing for salad oil	.....	572,000
Shortening	.....	21,848,000
Oleomargarin	.....	6,286,000
Other edible uses	.....	738,000
Soap	3,000	47,000
Other uses	.....	567,000
Perilla—		All grades
Paint and varnish		14,000
Printing ink		.....
Rapeseed—		
Lubricants and greases		1,803,000
Sesame—		All grades
All uses		18,000
Soybean—	Crude	Refined
Refining	296,673,000	.....
Fat-splitting	708,000	.....
Sulphonation	146,000	188,000
Winterizing for salad oil	.....	33,734,000
Shortening	.....	150,873,000
Oleomargarin	.....	52,611,000
Other edible uses	.....	17,385,000
Soap	653,000	312,000
Paint and varnish	1,621,000	20,597,000
Printing ink	1,000	196,000
Lubricants and greases	77,000	39,000
Other uses	11,288,000	14,971,000
Tallow—		All grades
Soap		.....
Lubricants and greases		2,746,000
Other uses		7,000
Tung—		All grades
Paint and varnish		16,787,000
Printing ink		304,000
Lubricants and greases		4,000
Other uses		4,900,000
Vegetable, not specified—		All grades
Refining		1,045,000
Fat-splitting		.....
Sulphonation		447,000
Winterizing for salad oil		.....
Shortening		468,000
Other edible uses		1,115,000
Soap		222,000
Paint and varnish		832,000
Linoleum and oilcloth		15,000
Printing ink		5,000
Other uses		631,000

Fats and Greases

	Pounds
Grease and lard oil—	
Sulphonation	720,000
Soap	[2] .....
Lubricants and greases	4,278,000
Other uses	3,290,000
Grease, not specified—	
Fat-splitting	7,120,000
Winterizing and pressing	12,472,000
Sulphonation	83,000
Soap	96,870,000
Printing inks	26,000
Lubricants and greases	8,202,000
Other uses	962,000
Lard, rendered—	
Shortening	26,451,000
Oleomargarin	769,000
Other edible uses	737,000
Soap	23,000
Printing ink	5,000
Lubricants and greases	29,000
Other uses	309,000
Stearin, animal—	Edible / Inedible
Shortening	4,978,000 / .....
Oleomargarin	923,000 / .....
Other edible uses	126,000 / .....
Other uses	57,000 / 2,286,000
Stearin, vegetable—	
Shortening	14,894,000
Oleomargarin	18,000
Other edible uses	12,000
Other uses	17,000
Tallow—	Edible / Inedible
Fat-splitting	..... / 35,437,000
Winterizing and pressing	..... / 530,000
Sulphonation	..... / 1,471,000
Shortening	10,887,000 / .....
Other edible uses	870,000 / .....
Soap	2,335,000 / 297,925,000
Paint and varnish	..... / 4,000
Printing inks	..... / 4,000
Lubricants and greases	99,000 / 9,084,000
Other uses	126,000 / 5,807,000
Woolgrease—	
Refining	1,708,000
Sulphonation	2,000
Soap	78,000
Paint and varnish	4,000
Printing ink	38,000
Lubricants and greases	1,646,000
Other uses	1,977,000

Fatty Acids and Acid Stocks

Animal fat and oil fatty acids, not specified—	
Winterizing and pressing	21,654,000
Soap	5,682,000
Lubricants and greases	1,684,000
Other uses	1,980,000
Animal oil foots (100% basis)—	
Soap	5,195,000
Other uses	.....
Fatty acid stocks, not specified—	
Refining	.....
Fat-splitting	[2] .....
Sulphonation	[2] .....
Soap	1,012,000
Paint and varnish	182,000
Linoleum and oilcloth	.....
Lubricants and greases	369,000
Other uses	1,308,000
Fish and marine mammal oil fatty acids—	
Sulphonation	288,000
Lubricants and greases	527,000
Other uses	337,000
Fish and marine mammal oil foots (100% basis)—	
All uses	844,000
Olive oil foots (including sulphur oil—	
Soap	107,000
Red oil—	
Sulphonation	871,000
Soap	4,065,000
Paint and varnish	39,000
Printing ink	81,000
Lubricants and greases	815,000
Other uses	6,412,000
Stearic acid—	
Sulphonation	16,000
Soap	1,501,000
Paint and varnish	104,000
Printing ink	[2] .....
Lubricants and greases	1,249,000
Other uses	9,864,000
Vegetable oil fatty acids—	
Sulphonation	56,000
Soap	10,535,000
Paint and varnish	2,023,000
Lubricants and greases	373,000
Other uses	5,537,000
Vegetable oil foots (100% basis)—	
Fat-splitting	13,455,000
Soap	20,607,000
Paint and varnish	[2] .....

Unclassified

Materials not shown separately—	
Fat-splitting	3,537,000
Sulphonation	56,000
Paint and varnish	152,000
Linoleum and oilcloth	80,000
Printing ink	91,000
Lubricants and greases	445,000

[1] Includes 922,123 pounds used in manufacture of oleomargarin for export and 2,369,731 pounds for domestic consumption during the third quarter of 1947.
[2] Included in "All other" vegetable oils to avoid disclosures of operations in individual establishments.
[3] Not shown to avoid disclosure of individual establishments.

Essential Oil Ass'n Adopts Eight Standards

Specifications and standards for eight products of prime importance to the essential oil industry were adopted at the second annual meeting of the scientific section of the Essential Oil Association, held at the McAlpin hotel, New York, on December 9. The move represented another step in the organization's plan to reach an agreement among members, as well as the authorities of USP and NF, on specifications for essential oils, derivatives and perfume bases.

"The standards that we have adopted have become renowned throughout the world; they carry the weight of our association and of its members in every corner of the earth," Dr. Eric C. Kunz, of Givaudan-Delawanna, Inc., said in the annual report of the section, of which he is chairman.

"Government authorities have come to accept our analytical methods and our specifications, and we can foresee that the specifications adopted by this committee will set the standards at the points of origin thousands of miles from here, and will aid in the settlement of any disputes and misunderstandings that may arise in the future."

Following Dr. Kunz's introductory report, specifications were presented by the various members of his committee. The members, and the products they reported on, were:—Albert Warren, of Dodge & Olcott, Inc.,

—Continued on page 66

DCAT Members Elected Directors of Trade Board

Five representatives of the Drug, Chemical and Allied Trades section of the New York Board of Trade were elected directors of the board at its seventy-fourth annual meeting held December 9.

They are B. R. Armour, president of Heyden Chemical Corporation; Stanley I. Clark, vice-president of Sterling Drug, Inc.; James G. Flanagan, secretary and general counsel of S. B. Penick & Co.; Harold C. Green, national accounts representative for L. Sonneborn Sons, Inc., and Clark L. Rodgers, eastern sales manager for Owens-Illinois Glass Company.

Fred J. Stock, vice-president of Chas. Pfizer & Co., who had been elected during the course of the year, was reelected for a longer term. The new officers will be installed during a meeting of the directors on December 17.

Cereal Chemists Vote Medal Award to Dr. Betty Sullivan

The American Association of Cereal Chemists has designated Dr. Betty Sullivan as the next recipient of its Thomas B. Osborne Medal Award for conspicuous achievement in cereal chemistry research. Dr. Sullivan, who is research director, vice-president and member of the board of directors of the Russell-Miller Milling Company, will receive the medal at the annual meeting of the association in Cincinnati in May.

She joined the laboratory staff of the Russell-Miller Milling Company in 1922 and was made chief chemist in 1927. She is a past president of the association and a member of the technical advisory committee of the National Millers Federation.

Rodenticide Industry Plans Rat Extermination Fight

OPD Washington Bureau

A war on rats in rural communities of the United States to protect the food and feed supplies on farms from costly ravages, has been declared by the Department of Agriculture, with the support and cooperation of the Agricultural Insecticide and Fungicide Association, the National Association of Insecticide and Disinfectant Manufacturers and the National Pest Control Association.

The trade associations and representatives of the rodenticide industry pledged the department full support and gave assurance that ample supplies of poison will be available wherever and whenever needed.

Industrial Medicine Inst. Names Advisory Committee

Ten authorities in the field of industrial medicine have been named to the medical advisory committee of the Institute of Industrial Medicine of the New York University-Bellevue Medical Center. Among them are Dr. James M. Carlisle, medical director for Merck & Co., Rahway, N. J.; Dr. A. G. Cranch, director of the industrial toxicological department of Union Carbide & Carbon Corporation, New York, and Dr. Robert C. Page, general medical director for Standard Oil Company (New Jersey).

THE RAT MARKET ...and your sales opportunity with ANTU

There is one rat for nearly every man, woman and child in the United States—an estimated 137,000,000 rats.

Rats cost this country an appalling sum every year—about $400,000,000—as estimated by one Government Service.

They compete with man for food, carry diseases transmissible to him, destroy or undermine his buildings, cut his electrical insulation, damage his property.

Rats are the most harmful, the most destructive, the most menacing to human health, of all the animal pests.

Today with such an effective and efficient rat killer available as ANTU—a tremendous opportunity for sales is open to you.

THE CHEMICAL—ANTU (alpha-naphthyl-thiourea), discovered by government-sponsored research during the war, is a highly specific poison for the brown (Norway) rat—*the rat most commonly found in cities, towns, and on farms in the U. S.* It is relatively non-poisonous to other rodents and animals. So far as is known, it is non-toxic to man except in large amounts.

ITS PROPERTIES—ANTU is a finely granulated gray powder. It is insoluble in water but soluble in some organic solvents including ethyl alcohol, acetic acid, dioxan and pyridoxine. It is chemically stable, non-volatile, and non-irritating to the human skin.

EASE OF MIXING—ANTU mixes evenly with all kinds of food (or ground grain) and adheres well to dry or wet foods when dusted on them. It sticks to the feet and hair of rats when they run through it. It dusts well from insect dust sprayers and pump guns.

HOW IT WORKS—ANTU kills through the stomach, not through contact with the skin. Rats die when they eat it in their food or lick it off their feet and hair—usually within 10 to 24 hours.

ITS APPLICATION—ANTU is a single-shot poison. Its success depends on the rat's getting a fatal dose at the first meal, since they quickly develop a tolerance which lasts about 30 days and an aversion which may last longer.

The J. T. Baker Chemical Co. is now ready to supply you ANTU for manufacturing purposes. Write today for prices.

Our descriptive bulletin gives latest information and recommendations on ANTU—how to use it—precautions to take. Send for it! Address *Agricultural Chemical Division*, J. T. Baker Chemical Co., 66 South Main Street, Phillipsburg, N. J.

THE COSTLY RAT!

RATS WASTE FEED

"About 50 pounds of grain or its equivalent are required to maintain one rat for 1 year, representing a minimum annual cost of 50 cents per rat for food actually consumed," says a Government Service. In addition, rats waste and contaminate about 100 pounds for every 50 pounds they eat.

RATS KILL CHICKS

Rats often kill apparently purely for the lust of killing. They have been known to kill several hundred baby chicks in a single night. Even full-grown hens and ducks, baby pigs, and lambs are killed. Large quantities of eggs are commonly destroyed.

RATS DAMAGE PROPERTY

Rat damage to property includes holes gnawed in many articles, including grain bags, leather, expensive upholstery, fabrics, furniture, doors, books, and even lead pipes—flooding, caused by burrowing in embankments—fires, caused by gnawing and short-circuiting electric wires—and undermining foundations of buildings.

RATS RUIN FOOD

To get at food rats usually gnaw through the container and ruin the whole package, although only a little is eaten. In warehouses, feed stores and mills, sacks of grain, stock feeds and flour are often spilled and fouled. In wholesale and retail grocery stores they gnaw into breakfast foods, crackers, bread, candies and almost all food products in cardboard, paper or wooden cartons.

RATS SPREAD DISEASE

Rats not only carry bacteria and other parasites on their feet and bodies, they transmit diseases of their own to man and domestic animals. Also, they acquire a number of human and livestock diseases, contributing to their spread. Diseases spread by rats include bubonic plague, typhus fever, spirochetal jaundice, rat-bite fever, food poisoning, tularemia, rabies, trichinosis.

HALF OF RATS ON FARMS

Government authorities estimate half of the rats in the United States are on farms . . about 26 per cent are in non-farm country residences and in towns of less than ten thousand population . . . about 24 per cent are in cities of ten thousand or more. On the basis of observations by many people engaged in rat control, they roughly estimate there is one rat per person in the U. S.—about 137,000,000 rats.

LOSSES RUN INTO MILLIONS

A careful survey by one of the members of a Government Service last year resulted in the estimate of an annual loss of approximately $200,000,000 worth of cereals and cereal products as a result of foods eaten or damaged by rats. Total estimates of all damage range between $300,000,000 and $500,000,000 per year.

"If everyone understood the true status of the rat, how dangerous and how destructive a rodent it is, not a single rat would be allowed to exist in or near an abode or place of business."
—U. S. A. Wildlife Circular 6.

Baker's Chemicals

C P ANALYZED • FINE • INDUSTRIAL

Current Market Quotations

Chemicals and Related Materials

December 12, 1947

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.

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A

Acacia (see Gum, arabic).

Acetaldehyde, 99%, dns., 55 gals., works..lb. .11½- .12
5 and 10 gals., works.....lb. .12 - .16
tanks, works .....lb. .09½- .10½

Acetaldol (see Aldol).

Acetamide, CP, fib. dns.....lb. .65 - .75
tech., fib. dns.....lb. .38 - .43

Acetanilide, tech., bbls., c.l.....lb. .19 - .21
l.c.l. .....lb. .20 - .22
kgs. .....lb. .27 - —
USP, bbls., 2,000-lb. lots.....lb. .40 - .41
smaller lots .....lb. .41 - .42

Acetic anhydride, dms., c.l., frt. all. E.
.....lb. .13½- —
l.c.l., frt. alld. E.....lb. .14½- —
tanks frt. alld. E.....lb. .12 - —

Acetoacetanilide, bbls., dns.....lb. .57 - .60

Acetone, CP, dms., c.l., dlvd.....lb. .09 - —
l.c.l., dlvd. .....lb. .10 - —
tanks, dlvd. .....lb. .07½- —
Methyl (see Mb.

Acetonitrile, dms., c.l., works.....lb. .45 - —
l.c.l., works .....lb. .50 - —
smaller containers, works.....lb. .55 - .60

Acetophenetidin, USP, bbls., kgs., 1,000-lb. lots..lb. 1.00 - —
dns. .....lb. 1.05 - 1.10

Acetophenone, crs., dns.....lb. 1.50 - 1.85

Acetyl chloride cbys., works.....lb. .60 - —

Acetyltributyl citrate, dms. .....lb. .43 - .51
smaller pkgs. .....lb. .54 - —

Acetyltriethyl citrate, dns.....lb. .36 - .44
smaller pkgs. .....lb. .47 - —

Acid, abietic, dns., c.l., works.....lb. .07½- —

Acetic, cons'l or redist. 28%, bbls...
100 lbs. 3.78 - 4.08
56%, bbls. .....100 lbs. 7.56 - 7.81
70%, bbls. .....100 lbs. 9.45 - 9.70
80%, bbls. .....100 lbs. 10.80 -11.05
Glacial, synthetic, C.P., dns., works
100 lbs. 13.50 -14.60
tanks, works .....100 lbs. 7.62 - 8.62
tech., dns., c.l., works..100 lbs. 10.07 -11.00
USP, dns., works.....100 lbs. 11.70 -12.00

Acetic acid price ranges above are c.l. and l.c.l. quantities. Carboys and cases are 50c. per 100 lbs. higher.

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic, USP, special, bbls., makers, primary distrib., point of ship't, 100-lb. lots..lb. .59 - —
smaller lots, ...lb. .61 - .64
standard, fine, cryst., gran. (30-40 mesh), powd. (80 mesh), bbls., same basis..lb. .45 - .59

Freight equalized, shipment identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Anthranilic, NF, bbls., frt. adjusted.
.....lb. 1.50 - 1.75

Anthranilic, resub., bbls.....lb. 2.00 - 2.30
tech., bbls.....lb. 1.60 - 1.85

Arsenous, tech. (see Arsenic, white).

Ascorbic, USP, dms., 500-kilo lots
.....kilo. 24.50 - —
25-50 kilo lots.....kilo. 25.00 - —
10-kilo lots.....kilo. 25.25 - —
5-kilo lots.....kilo. 25.70 - —
bots., kilo lots.....kilo. 26.41 - —
500 grams.....kilo. 27.47 - —

Battery, cbys., c.l., E. works. 100 lbs. 1.90 - 1.75
l.c.l., E. works.....100 lbs. 2.05 - 2.75

Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,900 lbs.....lb. .44 - —
900 lbs. or less.....lb. .47 - —

USP, bbls., 4,000 lbs. up.....lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .59

dns., 4,000 lbs. up.....lb. .55 - .56
1,000 to 3,900 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .58 - .59

Betanaphthol, bbls., works.....lb. 1.05 - 1.22

Boric, tech., 99.5%, cryst., powd., paper bgs., c.l., frt. split..ton 104.00 - —
ton lots, ex whse, N. Y. or Chi..ton 124.80 -125.00
less ton lots, same basis..ton 129.70 -130.00
bbls., c.l., frt. split.....ton 124.00 - —
ton lots, ex whse, N. Y. or Chi..ton 144.70 -145.00
less car lots, same basis..ton 149.70 -150.00
gran., bulk .....ton 95.50 - —
paper bgs., c.l. frt. split..ton 99.00 - —
ton lots, ex whse., N. Y. or Chi..ton 119.70 -120.00
less ton lots, same basis..ton 124.80 -125.00
bots., c.l., frt. split.....ton 119.00 - —
ton lots, ex whse., N. Y. or Chi..ton 139.70 -140.00
less ton lots, same basis..ton 144.70 -145.00
USP $25 per ton higher.

Broener's, bbls. .....lb. 1.22 - 1.34

Butyric, 99%, dns., c.l., works..lb. .32 - —
l.c.l., works.....lb. .33 - —

Cacodylic, bots.....lb. 12.00 -16.50

Camphoric, natural, dns.....lb. 8.00 - 8.50
synth., dns.....lb. 6.00 - 6.50

Capric, tech., rct. dns.....lb. .50 Nom.

Caprylic, 99%, dns.....lb. .50 Nom.

Castor oil, split, dns.....lb. .36½- .37½

Chlorosulphonic, dms., c.l., works..lb. .03 - —
l.c.l., works.....lb. .03½- .04½
tanks, works.....lb. .02½- —

Chromic, 99½%-99¾%, dns., c.l...lb. .21¾- —
l.c.l. .....lb. .22½- .22¾

Cinnamic, refd., bots.....lb. 3.00 - 4.00

Citric, anhyd., gran., fine gran., bbls.
.....lb. .25½- —
dms., c.l. .....lb. .24 - —
10,000 lbs., 1 ship't.....lb. .24½- —
kgs. .....lb. .25½- —
Anhydrous citric acid powder, ½c. per lb. higher.

USP, cryst., bbls., c.l.....lb. .25 - —
10,000 lbs., 1 ship't.....lb. .25½- —
smaller lots.....lb. .26 - —
kgs. .....lb. .26½- —
gran., fine gran., bbls., c.l.....lb. .22 - —
10,000 lbs., 1 ship't.....lb. .22½- —
smaller lots.....lb. .23 - —
kgs. .....lb. .23½- —
USP citric acid powder ½c. per lb. higher.

Cleve's, bbls., mixed.....lb. .61 - .65

Acid, coconut oil, dist., dms.....lb. .23½- .24¾
Corn oil, s.d., dms.....lb. .25¾- .26¼
Cottonseed, dist., dms.....lb. .25½- .26¾

Cresylic, dom., crudtar, high-boil 50% (210°-215°), low boil 50% (204°-206°), and special blends, dms., c.l., works, frt. equald.
.....gal. 1.26 - —
l.c.l., same basis.....gal. 1.29 - —
tanks, same basis.....gal. 1.20 - —

Petroleum, heavy grade, 220° to 240° C. dms., c.l., dlvd. E. Rockies..gal. .86 - —
l.c.l., same basis.....gal. 1.00 - —
tanks, same basis.....gal. .77½- —
Calif. ref'y.....gal. 62 - —

235°-280° C. dms., c.l., dlvd. E. Rockies..gal. .79 - —
l.c.l., same basis.....gal. 1.00 - —
tanks, same basis.....gal. .70½- —
Calif. ref'y .....gal. .57½- —

Crotonic, bbls., Canadian, works..lb. .35 - —

Dichlorophenoxyacetic, fib. dms., c.l., works..lb. .80 - —
l.c.l., works.....lb. .85 - .95

Diethylbarbituric (see Barbital)

F (see Acid, monosulphonic)

Formic, 85%, cbys., c.l., works....lb. .12 - —
l.c.l., works .....lb. .12½- .14½
90%, cbys., c.l., works.....lb. .12½- —
l.c.l., works .....lb. .13 - .14½

Fumaric, tech., bbls., dms.....lb. .27 - .31

Gallic, NF V, bbls., 1,000-lb. lots..lb. 1.40 - —
smaller lots .....lb. 1.43 - 1.45
technical, bbls., 1,000-lb. lots....lb. 1.23 - —
smaller lots .....lb. 1.26 - 1.28

Gamma, bbls. .....lb. 1.03 - 1.07

Gluconic, tech., 50%, bots.....lb. .23 - .31
dms. .....lb. .14 - —
kgs. .....lb. .19 - —

Glycolic (see Acid, hydroxyacetic).

H, bbls., works.....lb. .50 - —

Hydriodic, 45-47%, cbys.....lb. 2.52 - 2.54
57%, cbys. .....lb. 2.83 - 2.85

Hydrobromic, medicinal, 48%, cbys., dlvd. E..lb. .48 - —
tech., 48%, cbys., dlvd. E.....lb. .45 - —
34%, cbys., dlvd. E.....lb. .35 - .37

Hydrochloric (see Acid, muriatic).

Hydrocyanic, cyls., works.....lb. .80 - 1.00
dilute, NF, 2%, 5-lb. bots.....lb. .30 - .40

Hydrofluoric, anhyd., cyls., works..lb. .19 - 19½
tanks, works .....lb. .16 - —
30%, rubber dms., works.....lb. .08 - .09
48%, rubber dms., works.....lb. .12 - —
52%, rubber dms., works.....lb. .12½- —
60%, rubber dms., works.....lb. .13½- —

Hydrofluosilicic, 30-35%, bbls.....lb. .08 - 09

Hydroxyacetic, tech., 70%, bbls., non-return., Phila..lb. .084 - —
tanks, Belle, W. Va., 100% basis, lb. .085 - —

Hypophosphorous, USP, djns.....lb. .75 - 77

J, bbls., works, 20% basis.....lb. 2.42 - —

L, bbls., works.....lb. .73 - —

Lactic, edible, 50%, bbls., 20 or more, lb. .11½- —
smaller lots .....lb. .15 - —
80%, bbls., 5 or less.....lb. .24¼- 24⅝
plastic grade, 50%, bbls., 20 or more, lb. .17¾- —
10 or less.....lb. .18¼- —
80% bbls., 5 or less.....lb. .31¾- 32½

tech., 22%, bbls., c.l., works. 100 lbs. 4.40 - —
l.c.l., works .....100 lbs. 4.80 - —
cbys., works .....100 lbs. 5.30 - —
44%, bbls., c.l., works.....100 lbs. 8.15 - —
l.c.l., bbls., works.....100 lbs. 8.55 - —
cbys., works .....100 lbs. 9.05 - —

USP XII, 85%, cbys.....lb. .54 - .57
USP VIII, 75%, cbys.....lb. .52 - .59

Laurent's, bbls. .....lb. .70 - —

Lauric, dist., 85-90%, dms.....lb. .36 - .38
60%, dms. .....lb. .30 Nom.

Linseed oil, light, dms.....lb. .39½- .40

Maleic, powd., dns.....lb. .26 - .30
Anhydride (see M).

Malic, powd., kgs.....lb. .47 - —

Mandelic, NF, dms., 1,000-lb. lots..lb. 2.35 - —
smaller lots .....lb. 2.40 - 2.60

Mixed, tanks, nitric unit.....lb. .05 - .06
sulphuric unit .....lb. .008⅝- .009

Molybdic, kgs., works.....lb. .95 - 1.10

Monochloroacetic, purified, flake, 99%, dns., lb. .21 - .22½
tech., flake, 96-97%, bbls.....lb. .17½- .19½

Monosulphonic, bbls. .....lb. 1.50 - —

Muriatic, 18°, cbys., c.l., E. works. 100 lbs. 1.50 - 1.70
l.c.l., E. works.....100 lbs. 1.90 - 2.30
tanks, E. works.....ton. 18.00 -18.20
20°, cbys., c.l., E. works....100 lbs. 1.85 - 2.00
tanks, E. works.....ton. 20.00 -21.00
22°, cbys., c.l., E. works....100 lbs. 2.35 - 2.50
tanks, E. works.....ton. 22.00 -26.00

CP, USP, consumers, cbys., extra. lb. .08 - —
6-lb. bots., extra.....lb. .10 - —
dealers, cbys., extra.....lb. .06½- —
6-lb. bots., extra.....lb. .08½- —

Myristic, dist., dms.....lb. .45 Nom.

Naphthenic, 220-230 acidity, dms., extra, works..lb. .13 - —
tanks, works .....lb. .10 - —
230-240 acidity, dms., extra, works. lb. .20 - —
tanks, works .....lb. .17 - —

Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's)

Naphthol(1)-5-sulphonic (see Acid L).

Naphthol(1)-5-sulphonic,8-amino (see Acid, S).

Naphthol(1)-3,6,-disulphonic,8-amino (see Acid, H).

Naphthol(2)-6,8-disulphonic (see Acid, Gamma).

Naphtholsulphonic, mixed (see Acid, Cleve's, mixed).

Naphthylamine(1)-5-sulphonic (see Acid, J).

(2)-6-sulphonic (see Acid, Broener's).

Neville and Winthers, dms.....lb. .73 - .76

Nicotinic, USP, dms., works....kilo. 6.00 - 6.30

Nicotinic amide (see Nicotinamide).

Nitric, 36°, cbys., c.l., E. works... 100 lbs. 5.00 - —
l.c.l., E. works.....100 lbs. 5.30 - 6.30

38°, cbys., c.l., E. works....100 lbs. 5.50 - —
l.c.l., E. works.....100 lbs. 6.00 - 6.25

Acid, nitric, 40°, cbys., c.l., E. works. 100 lbs. 6.00 - 6.50
l.c.l., E. works.....100 lbs. 6.50 - 7.10

42°, cbys., c.l., E. works....100 lbs. 6.50 - 7.00
l.c.l., E. works.....100 lbs. 7.00 - 7.25

CP, USP, consumers, cbys., extra. lb. .13 - —
7-lb. bots., cs., extra.....lb. .15 - —
dealers, cbys., extra.....lb. .11½- —
7-lb. bots., cs., extra.....lb. .13½- —

Oleic (see Oil, red).

Oleum (see Acid, sulphuric, fuming).

Oxalic, bbls., c.l., works.....lb. .13 - —
10,000 lbs., works.....lb. .13¼- —
smaller lots, works.....lb. .14 - —

Palm oil, white, dist., dms.....lb. .21¼- 21⅝

Para-aminobenzoic, purified, dms., works..lb. 4.00 - —
technical, bbls., works.....lb. 1.70 - —

Paramethylphenylcinchonic (see Neocinchophen).

Paranitrobenzoic, crs. .....lb. .80 - —

Paratoluidinmetasulphonic, bbls., wks. lb. .85 - —

Peanut oil, s.d., dms.....lb. .25¼- 23½

Phenylacetic, bots.....lb. 1.51 - 1.75

Phenylglycollic (see Cinchophen).

Phenylglycollic (see Acid, mandelic).

Phosphoric, food grade, 50%, bbls., c.l., works, frt. equald. .... 100 lbs. 4.50 - —
l.c.l., same basis....100 lbs. 5.25 - 6.00
cbys., c.l., works, frt. equald.. 100 lbs. 5.00 - —
l.c.l., works, frt. alld. 100 lbs. 6.00 - 7.50
75%, bbls., c.l., works, frt. equald. 100 lbs. 5.75 - —
cbys., c.l., works, frt. equald. 100 lbs. 6.10 - —
l.c.l., works, frt. alld..... 100 lbs. 8.00 - 9.00
tanks, works, frt equald.... 100 lbs. 4.00 - —
USP XII, 85%, 100-lb. cbys., c.l..lb. .10½- —
l.c.l. .....lb. .11½- 13
70-lb. cbys. .....lb. .10½- —
l.c.l. .....lb. .11½- 13
dilut., 10%, cbys., djns.....lb. .07 - .07½
Pieramic, bgs.....lb. .65 - .70
Picric, bbls.....lb. .30 - .31

Propionic, nat., dms., works.....lb. .18 - —
tanks, works ....lb. .17 - —
synth., pure, dms., works.....lb. .22 - —
tanks, works .....lb. .21 - —

Pyrogallic, tech., bbls.....lb. No prices
N.F., cryst., dms.....lb. 2.80 - 3.03
resub., dms. .....lb. 3.30 - 3.45

Pyroligneous, bbls., incl., l.c.l., ex whse..gal. .43 - —

Ricinoleate (see Acid, castor oil, sulfo'd).

S, bbls., works.....lb. 2.54 - —

Salicylic, tech., bbls., c.l.....lb. .31 - —
smaller lots.....lb. .38 - —
USP, bbls., c.l.....lb. .40 - —
smaller lots.....lb. .47 - —

Sebacic, tech., dms., c.l., works..lb. No stocks

Soybean oil, s.d., c.l., works.....lb. .25¾- .26¾

Stearic, double pressed, bgs.....lb. .38 - .39
single pressed, bgs.....lb. .37½- .38½
triple pressed, bgs.....lb. .40¼- 41¼

Succinic, bbls.....lb. .87 - .90

Sulphanilic, CP, bots., works.....lb. 1.60 - 1.65
tech., dms., works.....lb. .17 - —

Sulphuric, 60°, cbys., c.l., E. works. 100 lbs. 1.35 - 1.40
l.c.l., E. works.....100 lbs. 1.70 - 2.00
tanks, E. works.....ton. 13.00 -13.50
66°, cbys., c.l., E. works....100 lbs. 1.55 - 1.70
l.c.l., E. works.....100 lbs. 2.05 - 2.75
tanks, E. works.....ton. 16.50 -17.50
98%, tanks, E. works.....ton. 17.50 -18.50
CP, N.F., consumers cbys., extra..lb. .08 - —
9-lb. bots., cs., extra.....lb. .10 - —
dealers, cbys., extra.....lb. .06½- —
9-lb. bots., cs., extra.....lb. .08½- —
fuming, 20%, tanks, E. works..ton. 19.50 -20.50

Tallow, dist., dms.....lb. .31¾- .32¾

Tannic, tech., 60-62%, dms.....lb. .68 - .69
70-72%, dms. .....lb. .80 - .85
75-76%, dms. .....lb. .86 - .90

USP, fluffy, bbls., 1,000-lb. lots..lb. 1.45 - —
smaller lots.....lb. 1.47 - 1.55
powder, bbls., 1,000-lb. lots....lb. 1.35 - —
smaller lots .....lb. 1.30 - 1.50

Tartaric, USP, bbls., 10,000 lbs., 1 ship't..lb. .45½- —
smaller lots .....lb. .46 - —
dns. .....lb. .48 - .49
kgs. .....lb. .40½- —

Thioglycolic, refined, bbls., cbys., basis 100%..lb. 1.95 - 2.00
tech., bbls., cbys., basis 100%..lb. 1.40 - —

Tobins, bbls.....lb. .60 - .62

Toluenesulphonic, dms., works....lb. .20 - —

Trichloroacetic, bots.....lb. 2.00 - 2.50

Tungstic, CP, 100-lb. pkgs.....lb. 3.30 - —
pure, 100-lb. kgs.....lb. 3.10 Nom.

Aconite leaves, bls. .....lb. .60 - .65

Root, bls. .....lb. 1.10 - 1.15

Aconitine, amorph., mild, bots.....oz. 32.50 - —
cryst., potent, bots.....oz. 85.00 - —

Acrylonitrile, dms., c.l., works....lb. .29½- —
l.c.l., works .....lb. .30½- .42½
tanks, works.....lb. .28½- —

Adeps lanae (see Lanolin).

Adonis vernalis herb, bls.....lb. .60 - .65

Agar .....lb. 3.85 Nom.

Agaric, white bls. .....lb. 2.75 - 3.00

Agrimony herb, bls.....lb. .40 - .45

Albumen (egg), edible flake, bbls...lb. 3.00 - 3.50
powd., bbls. .....lb. 3.05 - 3.55
tech., cryst., bbls.....lb. 1.25 - 1.45

Albumin, blood, dark (see Blood, dried, soluble).
light, dms., l.c.l.....lb. .70 - .75
Egg (see Albumen).

Alcohol, allyl, dms., c.l., dlvd.....lb. .26½- —
l.c.l., dlvd. .....lb. .27 - —
tanks, dlvd. .....lb. .25 - —

Amyl, ex pentane, dms., c.l., frt. alld. E. of Miss..lb. .18 - —
l.c.l., frt. alld. E. of Miss..lb. .19 - —
tanks, frt. alld. E. of Miss....lb. .17 - —
(see also Fusel oil, ref.)

Benzyl, cns. .....lb. .72 - .80
dms. .....lb. .68 - .88

Acacia—Alphatocopherol

Alcohol, butyl, normal, ferment. Ill., Ind. prod., dms., c.l., frt. alld.lb. .32 - —
l.c.l., frt. alld. E.....lb. .33 - —
tanks, frt. alld. E.....lb. .30½- —
tankwagon, frt. alld. E....lb. .31 - —
other production, dms., c.l., frt. alld. E..lb. .32 - —
l.c.l., frt. alld. E.....lb. .33 - —
tanks, frt. alld. E.....lb. .30½- —
synthetic, dns., c.l. frt. alld. E..lb. .18½- —
l.c.l., frt. alld. E.....lb. .19 - —
tanks, frt. alld. E.....lb. .17 - —

Normal butyl alcohol prices in West, ½c. per lb. higher

secondary dms., c.l., dlvd.....lb. .11 - —
l.c.l., dlvd. .....lb. .11½- —
tanks, dlvd. .....lb. .09½- —
tertiary, dms., c.l.....lb. .12½- —
l.c.l., dms. .....lb. .13 - —
tanks .....lb. .11 - —

Capryl, dms., c.l., works.....lb. .26 - —
l.c.l., works. .....lb. .27 - —
tanks, works .....lb. .24½- —

Cetyl, dom., CP, fiber cans, 1,000 lbs..lb. 2.25 - —
smaller lots .....lb. 2.30 - 2.55
Cinnamic, bots. .....lb. 3.00 - —

Denatured, CD12, CD13, dms., dlvd. E. of Miss. R..gal. 1.00½- 1.03
l.c.l., dlvd. E. of Miss. R..gal. 1.04½- 1.12
tanks, dlvd. E. of Miss. R..gal. .93½- .96

Tankcar sales require written authorization by Alcohol Tax Unit.

SD1, 190 pf., dms., c.l., dlvd. E. of Miss R..gal. 1.00 - 1.03
l.c.l., same basis.....gal. 1.04 - 1.12
tanks, same basis.....gal. .93 - .96
SD2B, dms., c.l., dlvd. E. of Miss. R..gal. 1.00 - 1.03
l.c.l., same basis.....gal. 1.04 - 1.12½
tanks, same basis.....gal. .93 - .96½
SD23H, dms., c.l., dlvd. E. of Miss. R..gal. .98 - 1.01½
l.c.l., same basis.....gal. 1.02 - 1.10¼
tanks, same basis.....gal. .91 - .94½
SD29, denatured with acetaldehyde, dms., c.l., dlvd. E. of Miss. R..gal. 1.04 - —
l.c.l., same basis.....gal. 1.08 - 1.13
tanks, same basis.....gal. .97 - —

When any of the several SD29 denaturants is supplied to the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.

Special solvent, dms., c.l., dlvd. E. Miss. R..gal. 1.03 - 1.03½
l.c.l., same basis.....gal. 1.07 - 1.12
tanks, same basis.....gal. .96 - .96½

Tankcar sales require written authorization by Alcohol Tax Unit.

Diacetone, acetone free, dms., c.l., dlvd...lb. .13 - .13½
l.c.l., dlvd. .....lb. .13½- .14
tanks, dlvd. .....lb. .11½- .12
tech., dms., c.l., dlvd.....lb. .13 - .14½
l.c.l., dlvd. .....lb. .14 - .15½
tanks, dlvd. .....lb. .11½- .13

Ethyl, 190 pf., dms., c.l., dlvd. E. Miss. R..gal. 18.10 -18.13
l.c.l., same basis.....gal. 18.14 -18.22
tanks, same basis.....gal. 18.03 -18.06
absolute, dms., c.l., same basis. gal. 19.03 -19.10
l.c.l., same basis.....gal. 19.11 -19.19
tanks, same basis.....gal. 19.00 -19.03

Ethylhexyl, dms., c.l., works.....lb. .29½- —
l.c.l., works .....lb. .30½- —
tanks, works .....lb. .28½- —

Furfuryl, tech., cns., works.....lb. .35 - —
dms., c.l., works .....lb. .22½- —
l.c.l., works. .....lb. .27 - —
tanks, works .....lb. .19 - —

Isoamyl (see Carbinol, Isobutyl).

Isobutyl, refd., dms., works.....lb. .13 - —
tanks, works.....lb. .12 - —

Isopropyl, refd., 91%, dms., incl., c.l., dlvd..gal. .44 - .46½
l.c.l., dlvd. .....gal. .47 - .49½
tanks, dlvd.....gal. .37 - —
99%, dms., incl., c.l., dlvd....gal. .47½- .50
l.c.l., dlvd.....gal. .50½- .53
tanks, dlvd.....gal. 40½- —

Methyl (see Methanol).

Methylamyl (see Carbinol, methyl-isobutyl).

Octyl, perfumer's grade, bots....lb. 4.00 - 4.40

Phenylethyl, dms.....lb. 2.30 - 3.50

Polyvinyl, type A, fiber-pack, Niagara Falls..lb. .65 - .70
type B, fiber-pack, same basis...lb. .60 - .68

Propyl, normal, dms., c.l., works.lb. .11½- —
l.c.l., works.....lb. .12 - —
tanks, works.....lb. .10 - —

Salicyl (see Saligenin).

Tetrahydrofurfuryl, cns., Cedar Rapids, Ia..lb. .47 - —
dms., c.l., Waverly, N. Y.....lb. .40 - —
l.c.l., same basis.....lb. .44 - —
tanks, Niagara Falls, N. Y.....lb. .36 - —

Aldol, 95%, dms., works.....lb. .15 - .16
denaturing grade, dms.....gal. 1.33 - 1.48

Aletris root, bgs.....lb. 1.85 - 1.90

Algin, bbls., fib. dns.....lb. .76 - 1.00

Alizarin (see Red, alizarin).

Alkanet root, bgs.....lb. .70 - .75

Alspice, Jamaica (see Pimento).
Mexican, bgs.....lb. .14 - .14½

Allyl bromide, cbys., 5,000 lbs., works lb. .99 - —
smaller lots, works.....lb. 1.05 - 1.10

Chloride, dms., c.l., dlvd.....lb. .14 - —
l.c.l., dlvd. .....lb. .14½- —
tanks, dlvd.....lb. .12½- —

Aloe, Cape, crs.....lb. .30 - .31
Curacao, kgs.....lb. .35 - .36
Socotrine, kgs.....lb. .35 - .36

Aloin, bbls., dms., kgs.....lb. 3.75 - 4.05

Alphacellulose, bgs., c.l., works.....lb. .14 - .15

Alphanaphthol, bbls.....lb. .64 - —

Alphanaphthylamine, bbls.....lb. .35 - .35½

Alphanaphthylthiourea, fib. dms., works, frt. alld..lb. 4.00 - 4.40

Alphanitronaphthalene, bbls.....lb. .31 - —

Alphapicoline, ret. dns., works, frt. equald..lb. .24 - .27½

Alphapinene, tanks, S. works....gal. .47 - —

Alphaterpineol, dms., l.c.l., dlvd. E..lb. .18 - —

Alphatocopherol, ampuls.....kilo. 750.00 - —

Althea Root—Asbestos

Althea root, NF, peeled, bls.	lb.	.35 -	.40
Alum, ammonia, burnt, USP, bbls., kgs.	lb.	.16 -	.18
gran., bbls., works	100 lbs.	4.00 -	—
lump, bbls., works	100 lbs.	4.25 -	—
powd., bbls., works	100 lbs.	4.40 -	—
Potash, gran., bbls., works	100 lbs.	4.25 -	—
lump, bbls., works	100 lbs.	4.50 -	—
powd., bbls., works	100 lbs.	4.65 -	—
Potash-chrome, bbls.	lb.	.12½-	.15
Soda, bbls., c.l., works	100 lbs.	3.25 -	—
l.c.l., dlvd.	100 lbs.	4.25 -	5.00
Alumina, classified grade, grd., kgs., works.	lb.	.35 -	.37
top grade, grd., kgs., works	lb.	.60 -	.67
unclassified, grd., kgs., works	lb.	.10½-	.40
Aluminum acetate, basic solution, 24%, bbls., l.c.l., works	lb.	.11 -	—
20%, bbls., l.c.l., works	lb.	.10 -	—
Chloride, anhyd., com'l, dms., c.l., works	lb.	.10 -	.11
l.c.l., works	lb.	.10¼-	—
cryst., com'l, dms., c.l., works	lb.	.06 -	—
l.c.l., works	lb.	.06½-	.06¾
solution, 32°, chys., c.l., works	lb.	.02¾-	—
l.c.l., works	lb.	.03¼-	—
Fluoride, tech., bbls., c.l.	lb.	.25 -	—
Formate, solution, 19° Be., bbls., c.l.,	lb.	.09½-	—
l.c.l., works	lb.	.10 -	—
Hydrate, heavy, bgs., c.l., works	ton.	56.00 -	—
l.c.l., works	ton.	76.00 -	—
light, bgs., dlvd.	lb.	.17 -	—
Hydroxide gel, tech., min. 15% Al (OH_3), dms., 10,000 lbs. or more, f.o.b. ship't point	lb.	.03 -	.03½
ton lots, same basis	lb.	.03¼-	.05½
smaller lots, same basis	lb.	.03¾-	.04
Aluminum hydroxide, gel., tech., 14-15% Al_2O_3, fib. dms., works	lb.	.20¾-	—
contract, works	lb.	.19¾-	—
9-9½% Al_2O_3, fib. dms., works	lb.	.17¾-	—
contract, works	lb.	.16¾-	—
dried, USP XII, fib. dms., works.	lb.	.75 -	—
contract, works	lb.	.75 -	—
powder, tech. (see Aluminum hydrate).			
USP IX bbls., dms.	lb.	.15 -	.17
Laurate, precip., bbls.	lb.	.42 -	—
Linoleate, solid, bbls.	lb.	.61¼-	—
Metal, 98-99%, ingots, 10,000 lbs.	lb.	.15 -	—
pigs, 10,000 lbs.	lb.	.14 -	—
Naphthenate, 1.7% Al, dms., wks.	lb.	.19 -	—
Oleate, dms., contract	lb.	.43¾-	—
Paste, lining, extra fine, dms.	lb.	.56 -	.60
ink, dms.	lb.	.71 -	—
standard, dms.	lb.	.38 -	—
Powder, lining, extra fine, dms.	lb.	.93 -	—
litho, dms.	lb.	.62 -	.64
standard, dms.	lb.	.62 -	—
rubber comp., dms.	lb.	.47 -	—
unpolished, stand., dms.	lb.	.43 -	.44
varnish, stand., dms.	lb.	.47 -	—

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Aluminum resinate, precip., dms.	lb.	.20½-	—
Stearate, dibasic, ctns., c.l.	lb.	.47 -	—
l.c.l.	lb.	.48 -	—
monobasic, ctns., c.l.	lb.	.47 -	—
l.c.l.	lb.	.48 -	—
tribasic, ctns., c.l.	lb.	.52 -	—
less ton quantities	lb.	.53 -	.54
Sulphate, com'l, bgs., c.l., works, frt. equald.	100 lbs.	1.15 -	1.30
l.c.l., same basis	100 lbs.	1.40 -	1.50
bbls., c.l., same basis	100 lbs.	1.55 -	1.60
l.c.l., same basis	100 lbs.	1.95 -	2.00
iron-free, bgs., c.l., works	100 lbs.	1.95 -	2.25
l.c.l., works	100 lbs.	2.35 -	2.50
Trihydrate, heavy (see Aluminum hydrate).			
Ambergris, gray, tins	oz.	8.50 -	12.00
Aminoazotoluene, bbls.	lb.	.85 -	—
Aminoethylpropanol, cns., dms., works.	lb.	.80 -	.89
Aminoethylethanolamine, tanks, works.	lb.	.60 -	—
Aminopyrine, bots., dms.	lb.	4.50 -	4.75
Ammonia, anhydrous, fertilizer, tanks, works, frt. equald.	ton.	59.00 -	—
pure, cyls., extra	lb.	.16 -	—
refrigeration, tanks, works.	ton.	61.50 -	—
Aqua, dms., c.l., works	lb.	.03 -	.03¼
l.c.l., works	lb.	.03½-	—
tanks, works (NH_3 content)	ton.	65.00 -	—
Ammoniac gum (see Gum, ammoniac).			
Sal, gray, bbls., c.l., works	100 lbs.	7.00 -	—
l.c.l., works	100 lbs.	7.40 -	—
white, gran., bbls., c.l., works.	100 lbs.	4.75 -	—
l.c.l., works	100 lbs.	5.00 -	—
Ammonium acetate, purified, bbls.	lb.	.32 -	—
reagent, bbls.	lb.	.34 -	—
Benzoate, USP, dms., kgs., 4,000 lbs., frt. alld.	lb.	.43 -	—
smaller lots, frt. alld.	lb.	.44 -	.47
Biborate, bbls., c.l., works	ton.	320.00 -	—
ton lots, works	ton.	338.50 -	—
less ton lots, works	ton.	343.50 -	—
Bicarbonate, dms., works, c.l.	lb.	.064 -	.0675
Bichromate, bbls., works	lb.	.26 -	.30
Bifluoride, bbls.	lb.	.15 -	.15½
Bromide, gran., NF, bbls.	lb.	.36 -	.37
dms.	lb.	.37 -	.40
powdered ammonia bromide 10c. per lb. higher.			
Carbonate, USP, lump, dms.	lb.	.11 -	.19
powdered, 1c. per lb. higher.			
Chloride, tech. (see Ammoniac, sal).			
USP, bbls., dms., kgs.	lb.	.13 -	.15
Citrate, dibasic, bbls.	lb.	.75 -	—
dms.	lb.	.80 -	.85
Fluoride (see Bifluoride).			
Hydroxide (see Ammonia aqua).			
Hypophosphite, NF, dms.	lb.	1.25 -	1.27
Iodide, NF, jars	lb.	3.90 -	3.96
Linoleate, plastic, 80%, dms., works.	lb.	.40½-	—
kgs., works		.42½-	—
25%, dms., frt. alld. zone 1	lb.	.21½-	—
tech., bbls., works	lb.	.37 -	—
dms., works	lb.	.39 -	—
Molybdate, CP, cryst., kgs.	lb.	1.26 -	1.30
fine cryst., bbls., kgs.	lb.	.84 -	.87
purified, dms.	lb.	1.10 -	1.12
Nitrate, fertilizer grade, Canadian, 33.5% N, bgs., c.l., shipping point	ton.	75.00 -	—
dom., bgs., western works	ton.	48.50 -	—
Nitrate-dolomite, 20.5% N, bgs., Hopewell, Va.	ton.	37.50 -	—
Oleate, dms.	lb.	.14 -	—
Oxalate, fine gran., bbls.	lb.	.23 -	—
dms.	lb.	.25 -	.29
Pentaborate, gran., bbls., c.l., works,	ton.	230.00 -	—
ton lots, works	ton.	248.50 -	—
less ton lots, works	ton.	253.50 -	—
Ammonia pentaborate powder, $10 per ton higher.			
Perchlorate, kgs.	lb.	.25 -	—
Persulphate, kgs.	lb.	.25½-	.28¼
Phosphate, dibasic, NF V, bbls., kgs.	lb.	.37 -	.39
tech., bgs., c.l., works	lb.	.07 -	—
l.c.l., works	lb.	.07¾-	—
Salicylate, NF, dms., kgs.	lb.	1.25 -	—
Silicofluoride, bbls., works	lb.	.12½-	—
Stearate, anhydrous, dms.	lb.	.34 -	—
paste, dms.	lb.	.06½-	—
Sulphamate, bbls., dms., works	lb.	.18 -	.20
Sulphate, bulk, producing ovens.	ton.	35.00 -	38.00
Sulphide, liquid, 40-45% basis, 100% dms., c.l., works	lb.	.10 -	—
l.c.l., works	lb.	.10½-	—
tanks, dlvd. or frt. alld.	lb.	.08½-	—
Sulphocyanide, pure, bbls.	lb.	.66 -	.68
tech., bbls.	lb.	.17 -	.19
Thiocyanate (see Ammonia sulphocyanide).			
Thioglycolate, highly purified, 100% basis, bbls.	lb.	7.10 -	8.25
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd.	lb.	.28½-	—
l.c.l., dlvd.	lb.	.29½-	—
tanks, dlvd.	lb.	.27 -	—
ex pentane, dms., c.l., frt. alld. E. of Miss. R.	lb.	.22 -	—
l.c.l., same basis	lb.	.23 -	—
tanks, same basis	lb.	.21 -	—
Alcohol (see Alcohol, amyl).			
Butyrate, dms.	lb.	.90 -	1.00
Chloride, mixed, tech., dms., c.l., works.	lb.	.07 -	—
l.c.l., works	lb.	.08 -	—
tanks, works	lb.	.06 -	—
Ether (see Ether, amyl).			
Nitrite, USP, bots.	lb.	1.75 -	1.83
Mercaptan, dms., works	lb.	1.10 -	—
Salicylate, cns.	lb.	.77 -	.90
Stearate, dms., works	lb.	.42 -	.45¼
Anethol, com'l, dms., works	lb.	.50 -	—
NF, dms.	lb.	.60 -	1.40
Angelica root, dom. (atropurpurea), bbls.	lb.	1.10 -	1.15
imported, bls.	lb.	1.50 -	1.60
Angostura bark, bls.	lb.	.55 -	.60
Anilin oil, dms., c.l., works, frt. alld.	lb.	.14 -	—
l.c.l., works, frt. alld.	lb.	.15 -	—
tanks, works, frt. alld.	lb.	.13 -	—
Salt, dms., works	lb.	.22 -	.24
Anise, Argentine, bgs.	lb.	.29 -	.30
Chinese, Star	lb.	.15 -	.15¼
Cyprus, bgs.	lb.	.26 -	.26½
Mexican, bgs.	lb.	.25½-	.26
Syrian, bgs.	lb.	.25 -	.26
Anisic aldehyde, bots., cns.	lb.	2.53 -	3.35
dms.	lb.	2.42 -	2.75
Annatto paste, bxs.	lb.	.34 -	.37
Seed, bgs.	lb.	.19 -	.20
Anthracene, 80-85%, bbls., works	lb.	.60 -	.86
98%, bbls., works	lb.	.81 -	1.00
Anthraquinone, 99.5%, bbls.	lb.	.70 -	—
Antimony butter (see Antimony chloride).			
Chloride, solut., cbys.	lb.	.17 -	—
Metal, bulk, c.l., mines	lb.	.33 -	.33¼
Needle, cs.	lb.	No stocks	
Oxide, ceramic grade, bgs., c.l., dlvd.	lb.	.26 -	.27½
l.c.l., dlvd.	lb.	.28 -	.28½
paint grade, bgs., c.l., works	lb.	.27½-	.31
l.c.l., works	lb.	.28¼-	.32¾
Salt, 65%, bgs., c.l., dlvd. E. of Miss.	lb.	No stocks	
Sulphide, 65-70%, bbls., c.l., works.	lb.	.22 -	—
l.c.l., works	lb.	.24 -	—
Antipyrine, bbls.	lb.	2.35 -	2.45
Apomorphine, bots.	oz.	23.20 -	23.70
Archil extract, bbls.	lb.	No stocks	
Areca nuts, powd., bbls.	lb.	.22 -	.23
Arecoline hydrobromide, bots.	oz.	6.10 -	7.10
Antimony-potassium tartrate (see Tartar emetic)			
Argols, min. 70%, bgs., shipment ports, 100 kilos (100% purity).	lb.	32.00 -	34.00
Arnica flowers, bls.	lb.	1.15 -	1.25
Arrowroot, powd., bgs., bbls.	lb.	.16 -	.17
Arsenic, metal, lump, bbls., c.l.	lb.	No stocks	
Metal, lump, bbls., c.l.	lb.	No stocks	
Sulphide, yellow, bbls.	lb.	No stocks	
Trioxide (see Acid, arsenous).			
White, powd., bbls., c.l.	lb.	.06 -	—
l.c.l.	lb.	.07 -	.08
Asafetida, cs.	lb.	.50 -	.65
powd., bbls., dms.	lb.	.72 -	.77
Asbestina (see Talc, N. Y., fibrous).			
Asbestos fiber, 5D and 5K, bgs., c.l. (20 tons), Can. mines.	ton.	73.00 -	—
5R, bgs., c.l. (20 tons), same basis.	ton.	65.00 -	—
6D, bgs., c.l. (30 tons), same basis.	ton.	48.50 -	—
7D, bgs., c.l. (30 tons), same basis.	ton.	44.50 -	—
7F, bgs., c.l. (30 tons), same basis.	ton.	42.00 -	—
7K, bgs., c.l. (30 tons), same basis.	ton.	31.00 -	—
7M, bgs., c.l. (30 tons), same basis.	ton.	27.50 -	—
7R, bgs., c.l. (30 tons), same basis.	ton.	26.50 -	—
7RF, bgs., c.l., same basis.	ton.	27.00 -	—
7T, bgs., c.l., same basis.	ton.	25.50 -	—
7TF, bgs., c.l., same basis.	ton.	27.00 -	—

Di-secondary Aromatic Amines

Good-rite CHEMICALS

Diphenyl p-Phenylenediamine

Di B-Naphthyl p-Phenylenediamine

These chemicals are suggested for use as stabilizers, antioxidants, polymerization inhibitors, and for organic synthesis. It is believed that they will be of interest to technical men in the following industries: dye, explosives, drug, medicinals, petroleum, plastics, and photographic.

Other organic Chemicals

Secondary Aromatic Amines

Phenyl B-Naphthylamine

p-Isopropoxy Diphenylamine

p-Hydroxy Diphenylamine

Mixed Mono and Diheptyl Diphenylamines

Ethers of Hydroquinone

Monobenzyl Ether of Hydroquinone

Dibenzyl Ether of Hydroquinone

Miscellaneous

Di-Isopropyl Dixanthogen

Trimethyl Dihydro Quinoline Polymer

Mixed Ethyl and Dimethyl Mercaptothiazoles

N-Nitroso Diphenylamine

All materials listed here are available in commercial quantities. Prices and technical information are available on request. Please write Dept. CH-6, B. F. Goodrich Chemical Company, Rose Building, Cleveland 15, Ohio.

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TELEPHONE LEXINGTON 2-3324
CABLE—"WILNEUBERG"

Asphaltum—Borage Flowers

Asphaltum, California, dms., c.l..ton.36.40 - —
l.c.l. ..... ton.41.40 - —
Cuban, A, bulk, c.l. ..... ton.60.00 - —
l.c.l. ..... ton.90.00 - —
B, bulk, c.l. ..... ton.38.50 - —
l.c.l. ..... ton.55.00 - —
Gilsonite, brilliant black, selects 270°-295° F fus. pt., bgs., f.o.b. Colo. mines..ton.36.50 - —
Seconds, 300°-390° F fusing point, not uniform, bgs., mines..ton.29.00 - —
Jet, bgs., ton lots, gross weight, Colo. mines..ton.29.00 - —
Manjak, No. 10, crude, dms., works. lb. .06½- —
process form, bgs., works.....lb. .05¾- .12
Mexican, refd., dms., f.o.b. Tampico. metric ton.27.50 - —
South American, refd., dms., c.l., N. J. refy..ton.22.60 -23.00
l.c.l., same basis..... ton.24.00 -25.00
tanks, same basis..... ton.15.00 - —
Atropine, bots. ..... oz.10.80 -12.00
Sulphate, bots. ..... oz. 8.90 - 9.85

B

Balm of Gilead buds, bgs. ..... lb. 2.25 - 2.50
Barbasco root (see Cube root).
Barberry root bark, bgs. ..... lb. .78 - .80
Barbital, dms. ..... lb. 4.50 - —
Sodium, dms. ..... lb. 4.75 - —
Barium carbonate, precip., bgs., 10 tons and up, works..ton.67.50 -75.00
small lots, works..... ton.74.50 -82.00
Chlorate, kgs., works..... lb. .25½- .31
Barium chloride, CP, cryst., bbls....lb. .25 - .27
pure, bbls., kgs. ..... lb. .10 - .12
tech., bgs., c.l., works..... ton.85.00 - —
l.c.l., works ..... ton.95.00 - —
Dioxide, dms., c.l., works..... lb. 11½- —
l.c.l., works ..... lb. .13 - —
Fluoride, bbls. ..... lb. 14 - —
Hydrate, crystals, bgs. ..... lb. .09 - .09½
Hydroxide, bbls., works..... lb. .19 - —
Iodide, bots. ..... lb. 5.12 - —
Monoxide (see Oxide)
Nitrate, bbls., c.l., works..... lb. .11½- —
l.c.l., works ..... lb. .13 - —
Oxide, grd., dms., works..... lb. .11 - .11½
l.c.l., works ..... lb. 12½- .13½
Peroxide (see Dioxide).
Silicofluoride, bbls. ..... lb. .17 - .19
Stearate, ctns., 1-ton up..... lb. .51 - .52
smaller lots ..... lb. .53 - .54
Sulphate, tech. (see Barytes and Blanc fixe).
X-ray, bbls. ..... lb. .10 - .10½
kgs. ..... lb. 12½- —
Sulphide, dms., c.l., works..... ton.55.00 - —
l.c.l., works ..... ton.70.00 - —
Baryte ore, approx. 94% $BaSO_4$, bulk, mines...ton. 9.40 -12.50
Barytes, water-grd., paper bgs., c.i., St. Louis..ton.33.30 - —
l.c.l., same basis..... ton.35.10 - —
ex whse., N. Y. ..... ton.46.25 - —
Southern off-color, bgs., mines... ton.19.00 - —
95.75%, bgs., mines..... ton.20.00 - —
Bay leaves (see Laurel leaves).
Barberry bark, bge. ..... lb. .12 - .13
Belladonna leaf, bls. ..... lb. 1.40 - 1.50
Root, bls. ..... lb. 1.25 Nom.
Bauxite, bulk, mines..... ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works..ton.11.00 - —
Benzaldehyde, NF, dms. ..... lb. .68 - .90
tech., cbys., dms ..... lb. .45 - .55
Benzene (see Benzol).
Hexachloride, tech., 11% gamma bgs., dms., c.l., works..lb. .35¾- .42¼
l.c.l., works ..... lb. .379 - .474
dust, dry, 50%, dealers, dms., c.l., works..lb. .33 - —
l.c.l., works. ..... lb. .34 - .35
wet, 50%, dealers, dms., c.l., works..lb. .34 - —
l.c.l., works ..... lb. .35 - .36
Benzidin base, bbls. ..... lb. .77 - —
Benzocaine, cns. ..... lb. 3.50 - 3.85
Benzol (benzene), pure, nitration and 90%, dms. ret., works..gal. .24 - .26
tanks, E. of Omaha, frt. alld. up to 2c..gal. .19 - .21
W. Coast, Minnequa, Colo., same basis..gal. .19 - —
Benzophenone, dms. ..... lb. 1.15 - 1.60
Benzoyl chloride, cbys. ..... lb. .20 - .28
Peroxide, pure, fib. ctns., works...lb. .90 - 1.05
Benzyl acetate, f.f.c., dms. ..... lb. .60 - 1.00
dms ..... lb. .60 - .70
Alcohol (see Alcohol, benzyl).
Benzoate, f.f.c., cns., dms ..... lb. 1.00 - 1.40
Chloride, refined, cbys. ..... lb. .22 - —
tech., cbys., works, frt. equald. lb. 20½- —
Cinnamate, cns. ..... lb. 3.65 - 4.00
Formate, cns. ..... lb. 1.95 - 3.50
Propionate, bots. ..... lb. 1.85 - 2.30
Salicylate, bots. ..... lb. 1.80 - 2.25
Benzylidinacetone, bots. ..... lb. 1.85 - 2.70
Benzylisoeugenol, bots. ..... lb. 9.50 - —
Berberine bisulphate, cns. ..... lb. No stocks
Hydrochloride, bots. ..... lb. No stocks
Sulphate, cns. ..... lb. No stocks
Berberis root, bls. ..... lb. .80 - .85
Betagammapicolin, dms., c.l., works. lb. .14½- —
l.c.l., works ..... lb. .25 - —
Betanaphthol, resublimed, dms., works. lb. .72 - .75
tech., bbls., c.l., works..... lb. .23 - .26
l.c.l., works ..... lb. .26 - .29
Benzoate, fib. dms., works..... lb. 1.75 - —
Salicylate, dms. ..... lb. 5.00 - —
Betanaphthylamine, tech., bbls., works. lb. .62 - —
Betapicolin, 90%, ret. dms., c.l., works. lb. 1.60 - —
l.c.l., works ..... lb. 1.85 - —
95%, dms., works..... lb. 2.05 - —
98-99%, dms., works..... lb. 2.20 - —
Beth root, bls. ..... lb. .55 - .60
Bismuth chloride, jars..... lb. 4.50 - —
Citrate, USP VIII, jars..... lb. 3.72 - —
Hydroxide, dms. ..... lb. 4.00 - —
Metal, bxs., ton lots..... lb. 2.00 - —
Nitrate, cryst., cns..... lb. 1.60 - —
Oxychloride, cns. dms..... lb. 3.80 - —
Oxide, anhydrous, dms..... lb. 4.20 - —
Subcarbonate, USP, dms..... lb. 2.60 - 2.63
Subgallate, NF, fib. dms..... lb. 2.45 - 2.48
Subiodide, fib. dms..... lb. 4.13 - —
Subnitrate, USP, dms..... lb. 2.15 - 2.18
Subsalicylate, USP, dms..... lb. 3.05 - —
Sulphocarbolate, fib. dms..... lb. 4.05 - —
Bismuth-ammonium citrate, USP, powd., dms..lb. 3.70 - —
Black, acetylene, bgs., c.l., works..lb. 12½- —
cs., l.c.l., ship. pt. ..... lb. .16 - .18
Bone, bgs., bbls., c.l., frt. alld. dest. lb. .13 - .21
Carbon, channel, beads, bulk, c.l., works..lb. .06 - —
bgs., c.l., works..... lb. .0632- —
l.c.l., works..... lb. .07 - —
dlvd. or whse..... lb. .1025- —
uncompressed, regular, bgs., c.l., works..lb. .075 - —
bgs., ctns., l.c.l., divd. or whse lb. .11¾- —
furnace, HMF, bgs., c.l., works..lb. .05 - —
ctns., l.c.l., whse..... lb. .09 - —
SRF, bgs., c.l., works..... lb. .035 - —
ctns., l.c.l., whse..... lb. .075 - —
Charcoal (see C).
Graphite (see G).
Iron oxide, synthetic, bgs., c.l., works..lb. .09¾- —
l.c.l., works..... lb. .10 - —
Lamp, bgs., c.l., works..... lb. .07 - .30
Mineral, bgs., l.c.l. ..... ton.26.00 -31.00
Black ash (see Barium sulphide).
Black dyes (see Dyes).
Black haw root, bark, bls..... lb. .80 - .85
Tree bark, bls. ..... lb. .35 - .43
Black Indian hemp root, bls..... lb. .55 - .60
Blanc fixe, dry, by-product.. bgs., c.l., works..ton.72.50 - —
l.c.l., works ..... ton.80.00 - —
direct process, bgs., c.l., works... ton.85.00 - —
l.c.l., works ..... ton.90.60 - —
N. Y. whse..... ton.108.00 -120.00
bbls., c.l., works..... ton.90.00 - —
l.c.l., works ..... ton.95.00 - —
N. Y. whse..... ton.113.00 - —
pulp, 66⅔% bbls., c.l., works..ton.55.00 - —
l.c.l., same basis..... ton.60.00 - —
Bleaching powder, dms., c.l., works.... 100 lbs. 3.75 - —
l.c.l., works ..... 100 lbs. 4.25 - —
bbls., c.l., works..... 100 lbs. 3.50 - —
l.c.l., works..... 100 lbs. 4.00 - —
Blood, dried, 16-16½% ammo., bgs..... unit-ton. 9.75 - —
high-grade, unground, 16-17% ammon., bulk, Chicago..unit-ton 10.75 - —
soluble, bgs., l.c.l. ..... lb. .17 - .25
Bloodroot, bls. ..... lb. .75 - .80
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.90 - —
Toner, bbls., litho flushed, same basis..lb. 1.10 - —
Celestial, bbls., same basis..... lb. .15 - .16
Chinese, bbls., same basis..... lb. .42 - —
Cobalt, genuine, bbls., same basis.lb. 4.90 - —
imitation (see Blue, ultramarine).
Copper-phthalocyanin, full strength, bbls., same basis..lb. 3.75 - 3.85
80%, bbls., same basis..... lb. 3.00 - 3.40
Iron (see Blue, Chinese, Milori, Potash Prussian, and Soda).
Methyl violet toner, bbls., same basis. lb. 4.20 - —
Milori, bbls., same basis..... lb. .42 - —
Peacock, fugitive, 100% color strength, same basis..lb. .60 - .70
Permanent toner, green shade, molybdic, bbls., same basis..lb. 3.75 - —
Tungstic ..... lb. 4.00 - —
Potash, CP, bbls., same basis..... lb. .48 - —
Prussian bbls., same basis..... lb. .42 - —
soluble, bbls., same basis..... lb. .42 - —
Soda, CP, bronze, bbls., same basis, lb. .30 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis..lb. .24 - .28
jobbing type, dry, bbls., same basis..lb. .13 - .14
regular types, dry or pulp, bbls., same basis..lb. .18 - .28
Victoria, toner, molybdic, bbls....lb. 3.75 - —
Tungstic, bbls..... lb. 3.75 - —
Ink toner, bbls., same basis....lb. 2.05 - 2.12
Violet toner, molybdic, bbls., same basis..lb. 1.24 - —
Tungstic, kgs., same basis....lb. 2.60 - 2.70

Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1½c., Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.

Blue dyes are listed under Dyes.
Blueflag, root, bls. ..... lb. No stocks
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls. ..... lb. .11 - .12
Bone, raw, bulk, Chicago..... ton.75.00 - —
junk, bulk, same basis..... ton.50.00 -52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works..ton.65.00 - —
Chicago, works..... ton.60.00 - —
steamed, feeding grade, 1% ammon., 60% phos., bgs., E. works..ton.65.00 - —
Chicago, works ..... ton.65.00 - —
fertilizer grade, 3% ammon., 50% phos, bgs., E. works..ton.60.00 - —
Chicago, works ..... ton.60.00 - —
Phosphate, defluorinated (see D), precipitated (see Calcium phosphate tribasic precip).
Boneset leaves, bls. ..... lb. .17 - .18
Borage flowers, bls. ..... lb. .55 - .56

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SULFADIAZINE U.S.P.
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. . . the Sulfa drug of choice
Sodium Sulfadiazine U.S.P.
Sulfamerazine U.S.P.
Sodium Sulfamerazine U.S.P.
Sulfanilamide U.S.P.
(powder, crystal and micro crystal)
Sulfathiazole U.S.P.
(powder, crystal and micro crystal)
Sodium Sulfathiazole U.S.P.
Sulfapyridine N.F.
Sodium Sulfapyridine
Aminoacetic Acid N.F.
Calcium Pantothenate (Dextro)
Choline Chloride
Choline Dihydrogen Citrate
Cinchophen N.F.
(and Sodium Salt)
Neocinchophen U.S.P.
Mandelic Acid N.F.
Calcium Mandelate U.S.P.
Menadione U.S.P.
Methylene Blue U.S.P.
(powder or crystals)
Nicotinic Acid U.S.P.
Nicotinamide U.S.P.
Saligenin
Thiouracil
Phenothiazine N.F.
(Regular and Drench grades for Veterinary use)
Certified Colors for Pharmaceutical and Cosmetic Use

Mandelic Acid is an effective urinary antiseptic which may be used as an alternative to the more potent sulfonamides. It is especially effective against colon bacilli (Escherichia coli), Aerobacter aerogenes, Streptococcus faecalis, Staphylococcus aureus and other organisms when the acidity of the urine is maintained at a pH of 5.5 or less. The employment of the calcium salt obviates, in many cases, the necessity of administering an acidifying agent. Calcium Mandelate is well tolerated by the stomach.

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AMERICAN CYANAMID COMPANY
Bound Brook, New Jersey

Borax, tech., 99½%, cryst., paper bgs., c.l., works, frt. split..ton 74.50 - 76.00
ton lots, ex whse., N. Y. or Chi..ton 94.20 -94.50
less ton lots, same basis..ton 90.20 -90.50
bbls., c.l., works, frt. split..ton 94.50 - —
ton lots, ex whse., N. Y. or Chi..ton 114.20 -114.50
less ton lots, same basis..ton 110.20 -110.50
fine gran., bulk, works..ton 44.50 -47.50
paper bgs., c.l., works, frt. split. ton 48.50 - —
ton lots, ex whse., N. Y. or Chi..ton 68.20 -68.50
less ton lots, same basis..ton 73.20 -73.50
bbls., c.l., works, frt. split..ton 68.50 - —
ton lots, ex whse., N. Y. or Chi..ton 88.20 -88.50
less ton lots, same basis..ton 93.20 -93.50
powdered, paper bgs., c.l., works, frt. split..ton 53.50 - —
ton lots, ex whse., N. Y. or Chi..ton 73.20 -73.50
less ton lots, same basis..ton 78.20 -78.50
bbls., c.l., works, frt. split..ton 73.50 - —
ton lots, ex whse., N. Y. or Chi..ton 93.20 -93.50
less ton lots, same basis..ton 98.20 -98.50
Borax packed in kgs. is $40 per ton higher than borax packed in paper bags. USP, $15 per ton higher.

Bordeaux mixture, bgs., c.l., whse., works, frt. alld..lb. .15 - .21
l.c.l., same basis..lb. .16 - .23

Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).

Brazilwood extract (see Hypernic).

Brimstone (see Sulphur).

Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., same basis..lb. .25 - —
single pkgs., same basis..lb. .28 - —
drms., lead-lined, c.l., dlvd..lb. .19 - —

Bromoform, USP, bots..lb. 1.50 - 1.70
clys..lb. 1.42 - —

Bromstyrol, bots..lb. 4.85 - 6.25

Bronze powder, aluminum (see Al.
Gold, litho., cans, drms., works..lb. .50 - .60
medium, cans, drms., works..lb. .80 - 1.00
printing ink, cans, drms., works. lb. .95 - 1.10
radiator, cans, drms., works..lb. .60 - .65

Broomtops, bls..lb. .29 - .30

Brown, iron, synth., bgs., l.c.l., works. lb. .12 - .12½
Oxide, metallic, bgs., c.l., works..lb. .02¼- .03
Soap, crystals, works..lb. .12 - —
powdered..lb. .13 - —
Sienna, burnt, American, works, paper bgs., l.c.l..lb. .06¾- .10¾
Italian type, bgs., works..lb. .10¾- .14
raw, American, bgs., l.c.l., works.. lb. .05¾- .10¾
Italian type, bbls., works..lb. .11¾- .12¾
Umber, burnt, American, c.l., bbls., works..lb. .05 - —
l.c.l., bgs., works..lb. .05¼- —
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Phila., Hiwassee, Va., N. Y..lb. .05¼- —
l.c.l., works..lb. .05½- —
raw, American, bgs., same basis. lb. .05¼- .05½
Turkey type, bgs., same basis. lb. .05½- .05¾
Vandyke, bbls., works..lb. .10 - .11

Brucine, cns., 100 ozs..oz. .40 - .50
Sulphate, cns., 100 ozs..oz. .40 - .45

Bryonia root, bls..lb. .45 - .50

Buchu leaves, bls..lb. 1.00 - 1.05

Buckthorn bark, bls..lb. .34 - .35
cut and sifted, bbls..lb. .40 - .42

Burdock root, bls..lb. .35 - .36

Butane, bonist, tanks, group 3..gal. .01 - —

Butyl acetate, normal, ferment, frt. ind., prod., drms., c.l., works, frt. alld. E. of Miss..lb. .32 - —
l.c.l., same basis..lb. .33 - —
tanks, same basis..lb. .30½- —
tankwagons, same basis..lb. .31 - —
other production, drms., c.l., same basis..lb. .32 - —
l.c.l., same basis..lb. .33 - —
tanks, same basis..lb. .30½- —
synthetic, drms., c.l., same basis. lb. .18½- —
l.c.l., same basis..lb. .19 - —
tanks, same basis..lb. .17 - —
Normal butyl acetate, W. of Miss., ½c. per lb. higher.
secondary, drms., c.l., dlvd. E. or Miss..lb. .1290- —
l.c.l., same basis..lb. .1310- —
tanks, same basis..lb. .1160- —

Alcohol (see Alcohol, butyl).

Aldehyde, drms., c.l., works..lb. .20½- —
l.c.l., works..lb. .21½- —
tanks, works..lb. .19½- —

Ether (see Ether, butyl).

Lactate, drms., c.l., frt. alld. E. of Rockies..lb. .40½- —
l.c.l., same basis..lb. .41½- —
tanks, same basis..lb. .39 - —

Laurate, drms., works..lb. .42 - —

Methacrylate, M-4, drms., works..lb. .60 - —
cns., works..lb. .63 - .67
P-4, cns., works..lb. .65 - —

Myristate, drms., works..lb. No prices.

Oleate, ref., drms., l.c.l., works..lb. .52 - —

Phenylacetate, drms..lb. 2.00 - 2.25

Phthalate (see Dibutyl phthalate).

Propionate, drms., dlvd..lb. No stocks
tanks, dlvd..lb. No stocks

Stearate, drms., l.c.l., frt. alld. E. of Rockies..lb. .45 - —

Butyl-isobutyl methacrylate, P-5, 50/50, cns., works..lb. .60 - —

Butyric ether (see Ethyl butyrate).

C

Cadmium bromide, jars..lb. 1.66 - 1.91
Iodide, cns..lb. 4.80 - 4.90
Lithopone (see Yellow).
Metal, ingots or sticks, cs., dlvd..lb. 1.75 - 1.80
patent shapes, cs., dlvd..lb. 1.75 - 1.80
Selenide (see Red).
Sulphide (see Yellow).

Caffeine, cryst., drms., 100 lbs. or more, lb. 4.25 - 7.00
anhydrous, drms., 100 lbs. or more, lb. 4.50 - —
Citrated, drms., 100 lbs. or more..lb. 2.75 - —
Hydrobromide, bots..lb. 6.00 - —

Calabar beans, bgs., futures..lb. .65 - .66

Calamus root, dom., bls..lb. .35 - .40
bleached, imported, bls..lb. .70 - .80

Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1,000,000 USP units), works..gram 4.00 - —
1,000 to 10,000 s.u., works..gram 4.40 - —
less than 1,000 s.u., works..gram 4.80 - —
In edible oil, drms., 10,000 or more... .10 - —
1,000 to 10,000 s.u., works....unit. .11 - —
less than 1,000 s.u., works..unit. .12 - —

Calcium acetate, bgs., dlvd....100 lbs. 3.00 - 4.00
Arsenate, dealers, drms., c.l., whse., works, frt. alld..lb. 09½- —
l.c.l., same basis..lb. .10½- 11¼
Bromide, NF, jars..lb. .75 - .85
Carbide, drms., c.l., works..ton 70.00 -90.00
delivered..ton 102.00 -109.00
Carbonate (see Chalk and Whiting)
Chloride, cryst., purified, bbls., fars. lb. 28 - 30
flake, 77-80%, paper bgs., c.l., dlvd. ton 21.50 -38.00
l.c.l., dlvd..ton 31.50 48.00
liquor, works, basis 40%..ton 8.50 —
solid, 73-75%, drms., c.l., dlvd..ton 21.00 -37.50
l.c.l., dlvd..ton 81.00 84.15
Calcium chloride prices vary according to zone. Minimum prices are for spot delivery, C.L. prices for flake in burlap bgs., $2.50 per ton higher; drms., $3.50 per ton higher.
Cyanide, drms., delivered, E. of Rockies..lb. .25 - .40
Gluconate, AA, bbls..lb. .65 - .72
cns..lb. .83 .90
USP, bbls..lb. .58 .65
cns..lb. .76 - .83
Hydride, drms., works..lb. .90 - —
Glycerophosphate, NF, fib. drms..lb. 1.80 - —
Hypochlorite, 100-lb drms., dlvd. E. of Rockies..lb. dm. 24.00 -28.50
cans, cased (45 lbs.) same basis..cs. 19.75 21.50
Iodide, fars..lb. 4.12 - —
Lactate, USP, drms..lb. .34 - .41
Laurate, bbls..lb. .43 - .44
Mandelate, USP, drms., works..lb. 2.35 - 2.60
Naphthenate, 5% Ca, drms..lb. .27 - —
Pantothenate, dex., fars..kilo 75.50 - —

Calcium phosphate, feeding grade, bgs., works..ton 75.50 - —
food grade, bbls., 10 or over, works. lb. .07 - .07¾
less than 10, works..lb. .08 - .10
medicinal, dibasic, bgs.....100 lbs. 11.40 -19.00
monobasic, cryst., bgs., c.l., works, frt equald..lb. 6.50 - —
l.c.l., same basis..lb. 6.75 - —
tribasic, bbls., c.l., works..lb. 6.50 - 6.80
bgs., l.c.l., works..lb. 6.85 - 7.30
Phytate, bgs., works..lb. .22 - —
Resinate, precip., 6.8% Ca, drms..lb. .20 - —
Silicate, hydrated, bgs., c.l., works. 05½- —
l.c.l., works..lb. .06 - —
Stearate, precp., cns., c.l., works. lb. .48 - —
l.c.l., works..lb. .49 - .50
Sulphate (see Gypsum).
Sulphide 70%, bgs., c.l., works..ton 45.00 - —
70%, bgs., c.l. works..ton 50.00 - —
luminous tins, works..lb. 1.25 - —
Sulphocarbolate bbls., drms..lb. .49 - .54
Calcium-strontium sulphide, phosphorescent, drms., works..lb. 1.06 - 1.50
fine particle size, works..lb. 1.50 - 1.75
Calendula flowers, bls..lb. 1.00 - 1.05
Calomel, USP, cryst., drms..lb. 1.82 - 1.93
fine powd., drms..lb. 1.97 - 1.98
Camphor, monobromated, drms..lb. 3.20 - —
Camphor, natural..lb. No stocks.
syrith, tech., bbls., 2,000 lbs. or more, works..lb. .45 - —
10 bbls. (1,500 lbs.)..lb. .47½- —
smaller lots..lb. .48 - .58
USP, gran. powd., bbls., 2,000-lb lots..lb. .72 - —
1,000-lb. lots..lb. .73 - —
smaller lots..lb. .74 - —
tablets, tins, 2,000-lb. lots..lb. .86 - —
1,000-lb. lots..lb. .87 - —
smaller lots..lb. .88 - —

Canada balsam (see Fir balsam).
Cantharides, Chinese, cs..lb. 2.00 - 2.25
powd., bxs..lb. 2.25 - 2.50
Russian, bgs..lb. 7.00 - 7.25
powd., bxs..lb. 7.25 - 7.50

Capsicum (see Pepper, red).
Oleoresin, NF VIII, cns..lb. 6.50 - 6.75

Caramel coloring, bbls..gal. 1.25 - —

Caraway seed, Dutch, bgs..lb. .17½- .18
Dutch, bgs..lb. .17½- .18
futures, new crop, bgs..lb. .17½- .18

Carbazole, 97%, drms., ton lots, works. lb. 1.10 - 1.30
smaller lots, works..lb. 1.20 - —

Carbinol, butyl, norm., drms., l.c.l., works..lb. .42 - —
secondary, drms., l.c.l., works..lb. .70 - —
Isobutyl, drms., c.l., works..lb. .51 - —
l.c.l., works..lb. .52 - —
tanks, works..lb. .50 - —
Methylisobutyl, drms., c.l., frt. alld. E..lb. .14½- —
l.c.l., same basis..lb. .15 - —
tanks, same basis..lb. .12 - —

Carbon bisulphide, 50-gal. drms., c.l., works, frt. alld. to competitive points..lb. .05¾- —
l.c.l., same basis..lb. .06¾- —
5-gal. drms., c.l., same basis..lb. .07¾- —
l.c.l., same basis..lb. .08¾- —

Dioxide, cyls..lb. .06 - .08

Tetrachloride, CP, drms., c.l..lb. .11 - —
l.c.l..lb. .11½- —
tech., drms., zone 1, c.l., frt. alld.lb. .07 - —
l.c.l., frt. alld..lb. .07½- —
zone 2, c.l., frt. alld..lb. .07½- —
l.c.l., frt. alld..lb. .08½- —
zone 3, c.l., frt. alld..lb. .08 - —
l.c.l., frt. alld..lb. .09¼- —
zone 4, c.l., frt. alld..lb. .07½- —
l.c.l., frt. alld..lb. .08 - —

ASPIRIN USP

RESORCIN USP Recrystallized

GLUCOSE 45° Bé

MAGNESIUM OXIDE Heavy

FORMIC ACID 90%

SODIUM SULPHIDE

NICKEL ANODES

BLEACHING POWDER 70%

TRICHLORETHYLENE

ANILINE OIL

DIRECT BLACK

PHOSPHORIC ACID 85%

SULPHUR BLACK

ATABRINE TABLETS

CHROME ORANGE, C.P.

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420 LEXINGTON AVENUE
NEW YORK 17, N. Y. Phone: LE 2-9740

Carbon Tetrachloride, USP—Codeine

Carbon tetrachloride, USP, chys....lb. .17 - .19

Carbon tetrachloride sales zones are:—1, Conn., Del., Ill., Ind., Ia., Me., Mass., Md., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., O., Pa., R. I., Tenn., Va., W. Va., Wis., and river cities of Burlington, Ia., and Kansas City, Kans.; 2, Ala., Ark., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D.; 3, Colo., N. Mex., Tex., and Montana points E. of Billings; 4, Ariz., Cal., Idaho, Nev., Ore., Utah, Wash. and Montana points W. of Billings. Zone 4 prices are f.o.b. cars, L. A., Calif., S. F., Calif., Portland, Ore., and Seattle, Wash.

Cardamom fruit, bleached, bold, cs..lb. 1.85 - 1.90
medium, cs.....lb. 1.50 - 1.55
decorticated, Guatemalan, cs....lb. 1.05 - 1.10
Indian, cs.....lb. 1.15 - 1.20
green, Alleppey, bgs.....lb. 1.15 - 1.20
Seed (see Cardamom fruit, decorticated).

Carotene, cryst., research grade tins, works..gram 5.00 - —
in vegetable oil (alpha, 10%, beta, 90%), amps., 100 grams, dlvd, gram 2.85 - —
50 grams, dlvd.....gram 2.90 - —
tech., tins, works.....lb. 67½- —
diluted, dry powd., 3,330 A units per gm., bots., works..lb. .70 - —
vegetable oil, 250,000 A units per gm., bots., works..lb.37.80 - —
50,000 A units per gram., bots., works..lb. 7.87 - —
3,330 A units, per gm., bots., works..lb. .85 - —

Carvol, bots.....lb.13.00 -16.00

Cascara sagrada bark, bulk.....lb. .40 - .43

Case-hardening mixture, 30% gran., dms., l.c.l...lb. .09¾- —
slabs, dms., l.c.l.....lb. .08¾- —

Casein, dom., acid-precip., bgs., 10,000 lbs. or more, ship't point...lb. .31 - .38
rennet-precip., 10,000 lbs. or more same basis...lb. .34 Nom.
imp., acid-precip., ground, bgs., 100 bgs. or more...lb. .29½- .31½
rennet-precip., unground, 100 bgs. or more. lb. .36 Nom.
smaller lots.....lb. .37 Nom.

Cassia bark, Batavia, No. 1, short-stick, bls. lb. .60 Nom.
broken, bls.....lb. .18 - .18½
thinquill, bls.....lb. .60 Nom.
China, rolls, select, cs.....lb. .11½- .12
broken, bls.....lb. .08½- .08¾
Kwangsi, broken, bls.....lb. .12½- .13
Saigon, broken, bls.....lb. .38 Nom.
medium, bls.....lb. .41 - .42
thin, bls.....lb. .45 - .46
Yunnan, bls.....lb. .14¼- .14¾

Buds, China, bgs.....lb. .23½- .24

Cassia fistula, bskts.....lb. .26 - .28

Castor beans, bgs., Brazilian ports, long ton.175.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works.....ton.40.00 - —

Castoreum, nat., cns.....lb.39.00 - —

Catechol, CP, cryst., works, fib. dms.lb. 2.00 - —

Catnep, bls.....lb. .68 - .70

Celery seed, French, bgs.....lb. .31 - .32
Indian, bgs.....lb. .23½- .24
futures, bgs.....lb. .23 - .23½

Celluloid scrap (see Pyroxylin scrap).

Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .36 - —
granules, ctns., same basis.....lb. .42 - —
molding composition, plain colors, pearls, special black, dms., c.l., frt. alld..lb. .47 - —
l.c.l., same basis.....lb. .49 - .64
regular black, dms., l.c.l., same basis..lb. .35 - .39
variegations, dms., l.c.l., same basis..lb. .54 - .59

Acetate-butyrate, flake, low butyryl content, 13.5-17%, ctns., 5,000 lbs., frt. alld..lb. .49 - —
1,000 lbs., frt. alld.....lb. .50 - —
100 lbs., frt. alld.....lb. .51 - —
smaller lots, works.....lb. .52 - —
medium butyryl content, 36.5%, ctns., 5,000 lbs., frt. alld..lb. .51 - —
1,000 lbs., frt. alld.....lb. .52 - —
100 lbs., frt. alld.....lb. .53 - —
smaller lots, works.....lb. .54 - —
high butyryl content, 47-50%, ctns., 5,000 lbs., frt. alld. lb. .57 - —
1,000 lbs., frt. alld.....lb. .58 - —
100 lbs., frt. alld.....lb. .59 - —
smaller lots, works.....lb. .60 - —
molding composition, plain colors, pearls, special black, dms., l.c.l., frt. alld..lb. .56 - .61
regular black, dms., l.c.l., same basis..lb. .47 - .51
variegations, dms., l.c.l., same basis..lb. .61 - .66

Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .40 - —

Cerium hydrate, dms., works.....lb. 1.00 - —
Oxalate, NF, bbls., kgs., works..lb. .70 - .72
Oxide, optical grade, bgs., under 100 lbs., works..lb. 2.25 - —
kgs., 100-lb. lots, works.....lb. 1.75 - —

Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l., works..lb. .62½- 66¼
l.c.l., ex whse.....lb. .04 - —
paint, bgs., c.l., works.....ton.40.00 - —
papermakers, bgs., c.l., works.ton.32.50 -40.00
rubber makers, bgs., c.l., works..ton.30.00 - —

Chamomile, Hungarian type, cs....lb. .65 - .70
Roman, bls., futures.....lb. 1.50 - 1.75

Charcoal, hardwood, briquets, bulk, c.l., works..ton.49.50 - —
bgs., c.l., works.....ton.54.50 -55.50
granular, bgs., incl., c.l., works, ton.50.50 - —
lump, bulk, c.l., works.....ton.39.50 -43.50
bgs., extra, returnable, c.l., works..ton.42.50 -45.50
screenings, bgs., works.....ton.33.50 - —

Pinewood, gran., powd., bgs., c.l., works, South..ton.40.00 - —
l.c.l., works.....ton.50.00 -60.00
lump, bgs., c.l., works, South..ton.35.00 - —

Willow, powd., bbls.....lb. .06 - .07

Chestnut extract, powd., 65% tannin, bgs., extra, c.l., works..lb. .1040- —
l.c.l., works.....lb. .1115- —
solid, 25% tannin, bbls., c.l., works, lb. .0435- —
l.c.l., works.....lb. .0460- —
tanks, works.....lb. .0375- —

China clay, dom., dry-grd., air-float, 99.75% 300 mesh, bgs., c.l., works..ton.12.50 -13.00
l.c.l., works.....ton.13.50 -14.00
bulk, c.l., works.....ton. 9.50 -10.00
99% 200 mesh, bgs., c.l., works..ton.10.00 -12.00
l.c.l., works.....ton.11.00 -14.00
wet-grd., silk-bolt, 99½% 325 mesh, bulk, c.l., works..ton.13.00 - —
paper bgs., c.l., works..ton.15.00 - —
imported, white lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila..net ton.16.00 -35.00
powd., bgs., c.l., ex dock.....ton.45.00 - —
l.c.l., ex whse.....ton.50.00 -55.00

Chloral, dms., works.....lb. .45 - .50
Hydrate, jars.....lb. .93 - .98

Chlordane, agricultural, dms., c.l., frt. alld..lb. 1.50 - —
l.c.l., frt. alld.....lb. 1.55 - 1.70
refined, dms., c.l., frt. alld.....lb. 1.65 - —
l.c.l., frt. alld.....lb. 1.70 - 1.85
technical, cns., c.l., works.....lb. 1.55 - —
l.c.l., works.....lb. 1.60 - 1.80

Chlorinated rubber, standard, ctns., 100 lbs. up, works..lb. .40 - —
smaller lots, works.....lb. .43 - —

Chlorine, liquid, cyls., c.l., works..lb. .07 - .12
l.c.l., stock points.....lb. .09 - .15½
tanks, single units, works, frt. equald..100 lbs. 2.25 - —
multiple units, 3 cars, works, frt. equald..100 lbs. 2.55 - —
2 cars, same basis...100 lbs. 3.15 - —
1 car, same basis.....100 lbs. 3.75 - —

Chloroform, tech., dms.....lb. .20 - .23
USP, dms.....lb. .30 - .33

Chloro-orthotoluidine (Red KB base), bbls..lb. 1.38 - —

Chloropicrin, com'l, bots., ex whse..lb. 1.25 - —
cyls., 180-lbs., works, frt. alld..lb. .80 - —
100-lbs., same basis.....lb. .82 - —
25-lbs., ex whse.....lb. 1.00 - —

Choline chloride, fib dms., works..lb. 3.00 - 3.10
feed grade, fib. dms., works..lb. 2.00 - —
Dihydrogen citrate, fib. dms., works, lb. 3.00 - 3.10

Chrome acetate, powd., 72% Cr., bbls., works..lb. No stocks
solut., 7½%, bbls., cs.....lb. .09¾- —
8½%, bbls., cs.....lb. .09¾- —
Cake, bulk, c.l., works.....ton.16.00 - —
Fluoride, bbls., works.....lb. .24 - .27
Green (see Green, chrome).
Oxide (see Green, chrome oxide).
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).

Chrysarobin, bots.....lb. 6.02 - 8.60

Cinchona bark, USP, red, quill, 30-lb., cs..lb. 1.26 Nom.
yellow, broken, bgs.....lb. .35 - .40

Cinchonidine, small cryst., cns., 100 ozs..oz. 1.02½- —

Cinchonine, large cryst., cns., 100 ozs. oz. .70½- —
small cryst., cns., 100 ozs.....oz. .75½- —
Sulphate, NF, cns., 100 ozs.....oz. .55½- —

Cinchophen, NF, heavy, dms., works, lb. 4.20 - 4.30
standard, dms., works.....lb. 4.00 - 4.10

Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, clvs., cns., dms.....lb. .82 - 1.25

Cinnamon, Ceylon, No. 2, bls.....lb. .35 - .36
dust soft.....lb. .23½- .24

Citral, bots., cns.....lb. 3.30 - 5.40

Citronellal, bots., dms.....lb. 2.75 - —

Citronellol, bots., dms.....lb. 3.85 - 4.75

Cloves, Madagascar, bls.....lb. .14¼- .14¾
futures, bls.....lb. .13 - .13½
Zanzibar, bls.....lb. .16½- .17

Clover tops, red, dom., bgs.....lb. .65 - .70
imported, bgs.....lb. No stocks.

Coaltar, road-gas, crude, dms., c.l., works..dm. 9.50 - —
l.c.l., works.....dm.10.00 - —
tanks, works.....gal. .09 - —
refd., bbls., c.l., works.....bbl.10.00 - —
l.c.l., works.....bbl.10.50 - —
tanks, works.....gal. .10 - —
water-gas, crude, dms., c.l., works, gal. .21 - —
l.c.l., works.....gal. .22 - —
tanks, works.....gal. .11 - —
refd., dms., c.l., works.....gal. .22 - —
l.c.l., works.....gal. .23 - —

Cobalt acetate, bbls., kgs., dlvd..lb. .83¾- —
Carbonate, powd., bgs., works....lb. 1.58 - —
feed, grade, 49½% Co, kgs.....lb. 1.58 - —
Chloride, kgs., works.....lb. .87½- —
feed grade, 24.5% Co, kgs.....lb. 1.25 - —
Hydrate, bbls.....lb. 2.01 - —
feed grade, 62% Co, kgs.....lb. 2.01 - —
Linoleate, paste, 8% Co, dms...lb. .58½- —
solid 8% Co, dms.....lb. .60¾- —
8% Co, dms.....lb. .62¾- —
Naphthenate, solid, 6% Co, dms..lb. .35½- —
Nitrate, feed grade, 20.4% Co, bbls. lb. .75¾- —
Oleate, bbls.....lb. .44 Nom.
Oxide, black, kgs.....lb. 1.27½- 1.30
Phosphate feed grade, 34% Co, kgs. lb. 1.26½- —
Resinate, precip., 7.5% Co, dms...lb. .38½- —
Soyate, solid, 8.5% Co, dms.....lb. .56½- —
Sulphate, dms.....lb. .65 - —
feed grade, 21% Co kgs.....lb. 1.00 - —
Cobalt salts, feed grade quotations are f.o.b. Phila., Cleve, or N. Y.

Cobalt-ammonium sulphate, 14% Co, kgs..lb. .75 - —

Cocaine hydrochloride, cns., 100-oz. lots..oz. 9.75 - —

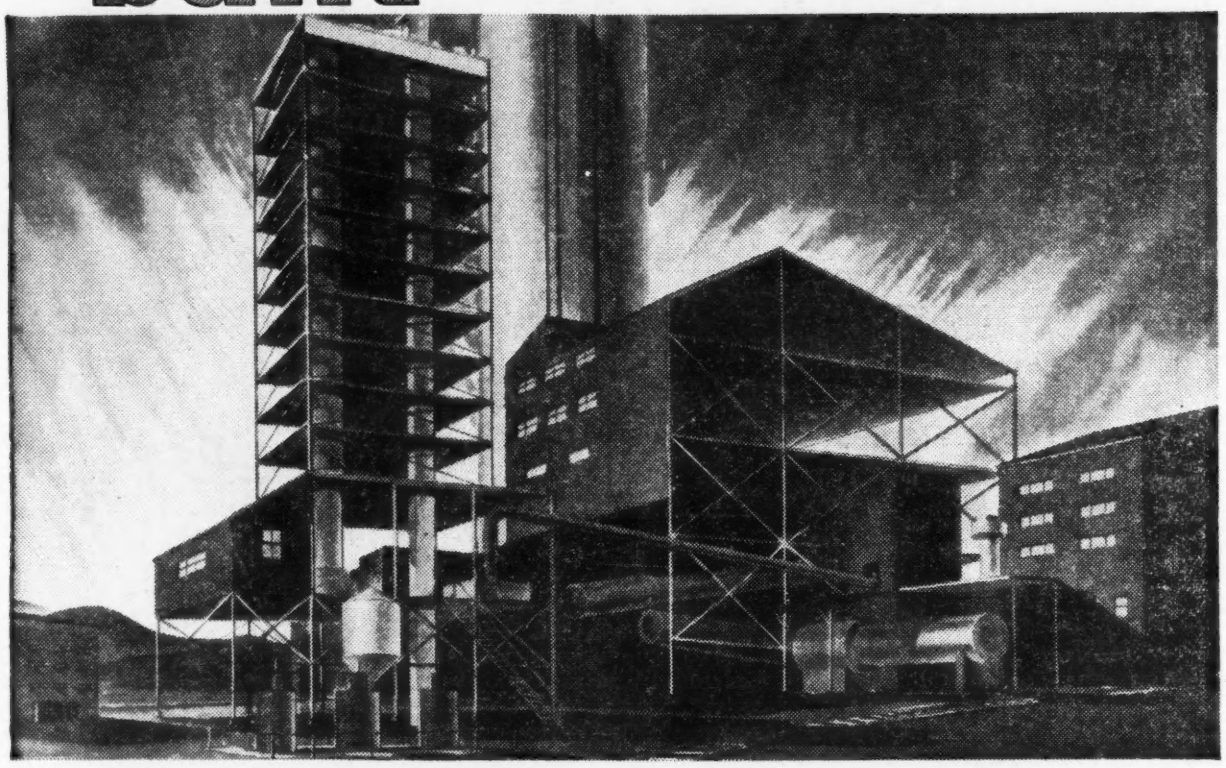
Cochineal, gray, bgs.....lb. .67 - .68
silver, Teneriffe, bgs.....lb. .69 - .70

Cocoa butter, bgs.....lb. 1.30 Nom.

Cocillana bark, bgs.....lb. .35 - .40

Codeine, cns., 100 ozs.....oz.13.25 - —
Hydrochloride, cns., 100 ozs.....oz.11.85 - —
Phosphate, cns., 100 ozs.....oz.10.25 - —
Sulphate, cns., 100 ozs.....oz.10.75 - —

built to meet increasing preference



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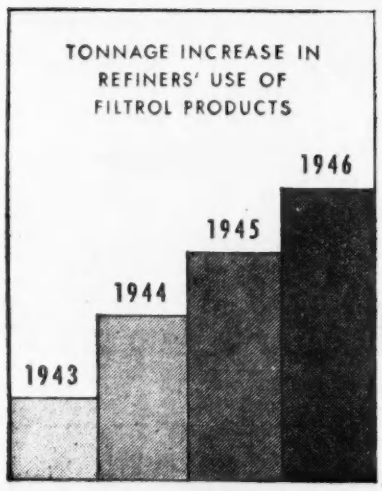


This great new Filtrol plant — a two-million-dollar project — will augment the ever-increasing productive capacity of our present modern plants in Vernon, California, and Jackson, Mississippi. Filtrol is maintaining its leadership in the field of catalysts, adsorbents and other highly activated, chemically treated materials by supplying added manufacturing facilities and technical resources to meet the ever-increasing demands of present users, and providing necessary plant capacity for the growing demand of existing as well as the newer fields of operation.

Filtrol* CATALYSTS ADSORBENTS DESICCANTS

FILTROL CORPORATION: General Offices: 634 So. Spring Street, Los Angeles 14, California
Plants: Vernon, California, and Jackson, Mississippi *Reg. U.S. Pat. Off.

Codliver oil (see Oil, codliver).
Colosh black, root, bls.....lb. .18 - .19
Blue, bls.....lb. .21 - .23
Colchicum seed, bgs.....lb. 4.00 Nom.
Colchinine, bots., cns.....oz. No stocks
Collodion, USP, dms.....lb. .24 - .29
Flexible, USP, dms.....lb. .25½ - .30½
Colocynth pulp, bls.....lb. .50 - .52
Columbo root, bls.....lb. .16 - .17
Coltsfoot leaves, bgs.....lb. .43 - .44
Condurango bark, bgs., futures.....lb. .23 - .24
Copaiba balsam, cns., dms.....lb. .68 - .70
Copper acetate, cupric, bbls., works lb. .28 - —
smaller containers, works.....lb. .29 - .30
Carbonate, 52-54%, bbls.....lb. .24 - .28
Chloride, anhyd., bbls.....lb. .26½ - —
crystals, bbls.....lb. .17½ - —
Cyanide, tech., bbls.....lb. .40½ - —
Hydrate, dms., del. E. Miss.....lb. .26¼ - .26¾
Metal, electrolytic.....lb. .21½ - —
Naphthenate, liquid, 8% Cu, dms., dlvd..lb. .21 - —
solid, 11% Cu, dms., dlvd.....lb. .27½ - —
Nitrate, tech., cryst., bbls., works, lb. .25 - .28
Oleate, solid precip., Cu 10%, bbls.lb. .45½ - —
Oxide, black, bbls., works.....lb. .28 - .30
Red, com'l, bbls., works.....lb. .30 - .32½
Oxychloride-sulphate, bgs.....lb. .24 - —
Resinate, precip., 8.5% Cu, dms..lb. .21½ - —
Sesquicarbonate, bgs., works.....lb. .33½ - —
Sulphate, cryst., 99%, bgs., c.l. works..100 lbs. 7.60 - —
l.c.l.....100 lbs. 7.85 - 8.60
monohydrated, 35%, dms., c.l., dlvd. 100 lbs.12.55 -12.80
l.c.l., dlvd.....100 lbs.13.55 - —
tribasic, dealers, bgs., works, c.l. lb. .21½ - .22½
l.c.l., works.....lb. .23 - .23½
Copperas, cryst., gran., bgs., c.l., works..ton.17.00 - —
l.c.l., works.....100 lbs. 1.55 - 2.00
bbls., c.l., works.....ton.20.00 - —
bulk, c.l., works.....ton.14.00 - —
Copra, c.l.f., Pacific ports.....ton.250.00 - —
Atlantic or Gulf ports.....ton.250.00 - —
Coriander seed, Argentine, bgs, futures. lb. .16 - .16½
Indian, bgs.....lb. No stocks
Moroccan, bgs., futures.....lb. .09¼ - .09¾
Corn sugar, bunnies, chipped, paper bgs., c.l., 60,000 lbs. min..100 lbs. 6.87 - —
bbls., c.l., same basis..100 lbs. 6.92 - —
Syrup, 42°, bbls., c.l.....100 lbs. 7.23 - —
l.c.l.....100 lbs. 7.28 - —
Cornsilk, bls.....lb. .29 - .30
Corrosive sublimate, NF, cryst., dms., 50 lbs. or more..lb. 1.68 - —
gran., powd., dms., 50 lbs. or more..lb. 1.53 - —
Cotonroot bark, bls.....lb. .40 - .43
Cottonseed hull ash, 32-36% potash, bgs., dlvd..unit-ton. 1.50 Nom.
Meal, 41% protein sacked, c.l. mills, S. E..ton.95.00 -96.00
Coumarin, cns., 25 lbs.....lb. 2.75 - 3.25
smaller lots.....lb. 2.90 - 3.30
Cramp bark, NF, bls.....lb. .80 - .85
Cream of tartar, dom., USP, gran. or powd., bbls., 5,000 lbs. one shipt..lb. .38½ - —
bbls., kgs., smaller lots.....lb. .39 - .39½
Creosote, beechwood, bots., cbys.....lb. 1.05 - 1.10
Coaltar (see Cresol).
Hardwood, N. F., bots., cbys.....lb. .80 - .85
Pinewood, dms.....gal. .31 - .32
Carbonate, bots., cbys.....lb. 2.30 - 2.40
Oil, coaltar, crude, tanks, works..gal. .17½ - .19½
refined, dms., c.l., works.....gal. .30 - .30½
l.c.l., same basis.....gal. .33 - .37
tanks, same basis.....gal. .22 - .25
solution, 80%, tanks, works..gal. .16 - .18
Cresol, tech., dms., c.l., works, frt. equald..lb. .14½ - .15½
l.c.l., same basis.....lb. .15½ - .15¾
tanks, same basis.....lb. .14 - .14½
USP, dms., c.l., same basis.....lb. .14½ - .15¼
l.c.l., same basis.....lb. .15¼ - .15¾
tanks, same basis.....lb. .14 - .14½
Crotonaldehyde, 91-93% dms., 55 and 110 gals., l.c.l., works..lb. .16½ - .17
5 and 10-gals., l.c.l., works....lb. .22 - —
Cryolite, nat., dealers, bgs., bbls., c.l., works..100 lbs.12.75 - —
bbls., l.c.l., works.....100 lbs.14.00 - —
Cube root, 5% rotenone, bbls., works.lb. .48 - —
4% rotenone, bbls., works.....lb. .38 - —
Cubeb berries, XX, bgs.....lb. .75 - .80
powd., cs.....lb. 1.00 - 1.05
Culvers root, bbls.....lb. .60 - .65
Cumin seed, Cyprian, bgs.....lb. No stocks
Indian, bgs, futures.....lb. .40 - .41
Italian, bgs.....lb. .08½ - .09
Moroccan, bgs.....lb. No stocks
Persian, bgs.....lb. .25 - .25½
Syrian, bgs.....lb. .24 - .24½
Cutch, 65% tannin, bgs., ex dock...lb. .12 Nom.
Cyanamide, fertilizer mixing grades, 20.6% N., gran., bulk, Niagara Falls, Ont., contracts, bulk.. unit-ton. 2.35 - —
pulv., 21% N., bgs., same basis, unit-ton. 2.25 - —
Cyclohexane, tech., dms., c.l., works.lb. .09½ - —
l.c.l., works.....lb. .10 - —
tanks, works.....lb. .08 - —
Cyclohexanol, tech., dms., c.l., works.lb. .21½ - —
l.c.l., works.....lb. .22 - —
tanks, works.....lb. .20 - —
Cyclohexanone, tech., dms., c.l., works. lb. .26½ - .30
l.c.l., works.....lb. .27 - .31
tanks, works.....lb. .25 - .29
Cyclohexylamine, dms., works.....lb. .32 - —
Cyclopropane, USP, cyls., dlvd...gal. .27 - —

D

Damiana leaves, bls.....lb. .85 - .90
Dandelion root, bls.....lb. .07 - —
DDT, fiber, dms., c.l., works.....lb. .37½ - —
ton lots, works.....lb. .40 - —
tins, smaller lots, works.....lb. .45 - .47
Decanol, normal, tech., dms., dlvd..lb. .35 - —
Deertongue leaves, bls.....lb. .35 - .40
Defluorinated phosphate, 65% b.p.l., paper bgs., Columbus, Ga..ton.39.25 - —
Texarkana, Ark.....ton.41.00 - —
Tupelo, Miss.....ton.39.25 - —
Wales, Tenn.....ton.39.25 - —
Rock, paper bgs., works.....ton.34.25 - —
Degras, common, bbls.....lb. .10 - .12
Neutral, less 2% ffa., bbls.....lb. .20 - .21
over 2% ffa., bbls.....lb. .19 - .20
Derris root (see Cube root).
Dextrin, British gum, bgs., c.l..100 lbs. 8.55 - —
Chicago.....100 lbs. 8.10 - —
l.c.l.....100 lbs. 8.70 - —
Corn, Canary, bgs., c.l.....100 lbs. 8.29 - —
Chicago.....100 lbs. 7.84 - —
l.c.l.....100 lbs. 8.44 - —
dark, bgs., c.l.....100 lbs. 8.39 - —
Chicago.....100 lbs. 7.94 - —
l.c.l.....100 lbs. 8.54 - —
white, bgs., c.l.....100 lbs. 8.14 - —
Chicago.....100 lbs 7.69 - —
l.c.l.....100 lbs 8.29 - —
Above prices are for dextrin in paper bgs; cotton bgs., 17c. higher.
Potato, dom., bgs.....lb. .15 - .16½

Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots.....lb. 5.20 - 5.85
laboratory grade, bots....100 grams. 4.50 - —
tech., bots., works.....lb. 3.00 - —
Diamyl ether (see Ether, amyl).
Phthalate, dms., tanks.....lb. No prices
Dianisidin, dms.....lb. 1.54 - —
Diatomaceous earth, dom., bgs., c.l., Atlantic coast..ton.50.00 -52.00
California.....ton.38.00 -40.00
l.c.l., ex whse.....ton.80.00 - —
purified, bgs., c.l., Atlantic coast. ton.62.00 - —
California.....ton.50.00 - —
l.c.l., ex whse.....ton.90.00 - —
Imported, Algerian, bgs., c.l., Atlantic coast..ton. No prices
Mexican, white, bgs., c.l., Atlantic coast..lb. .03 - —
l.c.l., Atlantic coast.....lb. .06 - —
Dibutyl phthalate, dms., c.l.....lb. .33¼ - .38½
l.c.l.....lb. .34 - .39
tanks.....lb. .32 - .37
Sebacate, dms., c.l., works.....lb. .78¾ - —
l.c.l., works.....lb. .79¼ - —
tanks, works.....lb. .77¾ - —
Tartrate, dms., wks., frt. alld....lb. .92 - 1.02
Dibutylamine, dms., c.l., works.....lb. .52½ - —
l.c.l., works.....lb. .53½ - —
tanks, works.....lb. .50 - —
Dichloroanilin, dms., works.....lb. .65 - —
Dichlorodiphenyldichloroethane, flb. dms., c.l., works..lb. .42½ - —
ton lots, works.....lb. .45 - —
tins, small lots, works.....lb. .48 - .50
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichlorophenol, dms., frt. equald....lb. .26 - —
Dicyclohexylamine, dms., works....lb. .38 - —
Dicyclohexylphthalate, flb. dms., c.l., works..lb. .42½ - —
l.c.l., same basis.....lb. .43 - —
Diethanolamine, dms., c.l., frt. alld. E..lb. .25 - —
l.c.l., same basis.....lb. .26 - —
smaller containers, same basis....lb. .29 - —
tanks, same basis.....lb. .23½ - —
Diethyl carbonate, dms., l.c.l.....lb. .40 - —
Oxalate, dms., c.l.....lb. .35½ - —
l.c.l.....lb. .36½ - —
tanks.....lb. .34 - —
Phthalate, dms., c.l., dlvd.....lb. .31½ - .32½
dms., l.c.l., dlvd.....lb. .32 - .33½
tanks, dlvd.....lb. .30 - .31½
Sulphate, dms., c.l., works.....lb. .14 - —
l.c.l., works.....lb. .15 - —
tanks, works.....lb. .13 - —
Diethylamine, dms., c.l., works....lb. .69 - —
l.c.l., works.....lb. .71 - —
tanks, works.....lb. .65 - —
Diethylaminoethanol, dms., l.c.l., works frt. alld. E. of Miss....lb. .75 - —
Diethylanilin dms.....lb. .48 - —
Diethyleneglycol, dms., c.l., frt. alld. E..lb. .15 - —
l.c.l., same basis.....lb. .16 - —
tanks, same basis.....lb. .13½ - —
Diethylether, dms works.....lb. .40 - —
Monobutylether, dms., c.l., works, lb. .22 - —
l.c.l., works.....lb. .23 - —
tanks, works.....lb. .21 - —
Diethyleneglycol monobutylether acetate, dms., c.l., works..lb. .27½ - —
l.c.l., works.....lb. .28½ - —
tanks, works.....lb. .26½ - —
Monoethylether, dms., c.l., works.lb. .17 - —
l.c.l., works.....lb. .18 - —
tanks, works.....lb. .16 - —
Monoethylether acetate, dms., c.l., works..lb. .25½ - —
l.c.l., works.....lb. .26½ - —
Monomethylether, dms., c.l., works. lb. .21½ - —
l.c.l.....lb. .22½ - —
tanks.....lb. .20½ - —
Monomethylether acetate, dms., c.l., works..lb. .21½ - —
l.c.l., works.....lb. .22½ - —
Diethylenetriamine, tanks, works...lb. .50 - —
Diethylstilbestrol, bots.....kilo.325.00 -330.00
Digitalin, cryst., bots.....gram.18.00 -19.00
powd., bots.....gram. 1.25 - 1.75
Digitalis leaves, dms.....lb. 1.05 - 1.15
Diglycol laurate, dms.....lb. .33 - —
Oleate, light, bbls., c.l.....lb. .33 - —
Stearate, bbls., c.l.....lb. .40 - —
Dihydroxydichlorodiphenylmethane, dms..lb. .95 - 1.00
smaller containers.....lb. 1.05 - 1.40
Di-isobutyl ketone, dms., works....lb. .19 - —
Di-isobutylene, dms., c.l., works....lb. .07 - —
l.c.l., works.....lb. .07½ - —
tanks, works.....lb. .05½ - —
Dillseed, decorticated, bgs.....lb. .16 Nom.
dewhiskered, bgs.....lb. .12 - .12¾

of Emulsol Surface Active Food Materials

Whatever your needs, whatever your particular problem, there's an Emulsol Surface Active Food Material to assist you. Versatility, quality and satisfaction are the cornerstones of the Emulsol Corporation.

Some typical products:

Frozen Specialty Egg Products — Controlled pack to your specifications.

High Foaming Odorless Albumen Z — The latest advance in the dried Albumen field.

Emcol MS — Glyceryl monostearate—high monoester non self-emulsifying type.

Emargol — Ester type margarine emulsifier and anti-spatterer.

Emcol 14 — Polyglyceryl ester — emulsifier, antifoamer, baking texturizer.

And the finest "know-how" technical service. Send us your problem on your letterhead and, at no cost to you, we will send you the most effective answer.

THE EMULSOL CORPORATION

59 East Madison St Chicago 3, Illinois

Dimethyl Phthalate—Ethylcellulose

Dimethyl phthalate, dms., c.l., dlvd. lb. .24¾- —
l.c.l., dlvd. lb. .25½- —
tanks, dlvd. lb. .23½- —
Sebacate, dms., c.l., works lb. .91 - —
l.c.l., works lb. .91½- —
tanks, works lb. .90 - —
Sulphate, ret. 55-gal. dms., c.l., works lb. .15 - —
l.c.l., works lb. .16 - —
ret. 10-gal. dms., works lb. .16½- —
Dimethylamine, anhyd., cyl., works, basis 100% lb. .38½- .48½
25%-40%, dms., c.l., works, basis 100% lb. .38 - —
l.c.l., works, basis 100% lb. .38½- —
tanks, works, basis 100% lb. .33 - —
Dimethylanilin, dms., c.l. lb. .21 - .24¼
l.c.l. lb. .22 - —
Dinitroanilin, dms., frt. equald lb. .50 - —
Dinitrobenzene, bbls. lb. .16 - —
Dinitrochlorobenzene, dms. lb. .14 - .15½
Dinitronaphthalene, kgs. lb. .35 - .38
Dinitrophenol, bbls. lb. .22 - —
Dinitrotoluene, oily, dms. lb. .07 - .07¾
refd., dms. lb. .18 - —
Dinonylnaphthalene, tanks, works lb. .15 - —
Diorthotolylguanidin, dms., ton lots, dlvd. lb. .44 - —
smaller lots, dlvd. lb. .46 - .47
Dioxan, dms., c.l., frt. alld lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .19 - —
Dip oil (see Tar acid oil).

Dipentene, dest.-dist., dms., incl., c.l., works, South. gal. .45 - —
l.c.l., same basis gal. .46 - —
N. Y. whse. gal. .60 - —
steam-dist., dms., c.l., whse, NYC. lb. .59 - —
l.c.l., same basis lb. .62 - —
Diphenyl, bbls., c.l., works lb. .15 - —
l.c.l., works lb. .16 - .20
Oxide, perfume grade, cns. lb. .48 - .61
dms. lb. .45 - .56
Diphenylamine, bbls. lb. .25 - —
Diphenylguanidin, dms., ton lots. lb. .35 - —
smaller lots lb. .36 - .37
Divi-divi, 88% tannin, bgs., bls., c.l., U.S. ports, ex dock ton 61.00 -62.00
Doggrass root, dom., cut, bls. lb. .27 - .28
imp., N.F., cut, bls. lb. .35 - .40
Dogwood, Jamaica, bark, bls. lb. .12 - .14
Dragon's blood, drops, cs. lb. .45 - .47
mass, cs. lb. 1.50 - 1.55
reeds, cs. No stocks
Dyes, coaltar, certified colors for foods, drugs and cosmetics, 1-lb. lots:—
Blue, FD&C, No. 1, cns. lb. 14.85 - —
No. 2, cns. lb. 14.85 - —
Green, FD&C, No. 1, cns. lb. 14.85 - —
No. 2, cns. lb. 19.25 - —
No. 3, cns. lb. 30.25 - —
Orange, FD&C, No. 1, cns. lb. 3.20 - —
No. 2, cns. lb. 4.00 - —
Red, FD&C, No. 1, cns. lb. 6.60 - —
No. 2, cns. lb. 3.45 - —
No. 3, cns. lb. 19.25 - —
No. 4, cns. lb. 6.35 - —
No. 32, cns. lb. 4.55 - —

Dyes, coaltar, certified colors for foods, drugs and cosmetics, 1-lb. lots:—
Yellow, FD&C, No. 1, cns. lb. 9.35 - —
No. 3, cns. lb. 2.90 - —
No. 4, cns. lb. 2.90 - —
No. 5, cns. lb. 3.45 - —
No. 6, cns. lb. 3.45 - —

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots:—
Black, D&C, No. 1, cns. lb. 9.15 - —
Blue, D&C, No. 4, cns. lb. 13.55 - —
Brown, D&C, No. 1, cns. lb. 13.55 - —
Green, D&C, No. 5, cns. lb. 13.55 - —
No. 6, cns. lb. 13.55 - —
Orange, D&C, No. 3, cns. lb. 9.15 - —
No. 4, cns. lb. 16.85 - —
No. 5, cns. lb. 4.75 - —
No. 10, cns. lb. 17.40 - —
Red, D&C, No. 8, cns. lb. 3.10 - —
No. 9, cns. lb. 3.10 - —
No. 10, cns. lb. 3.50 - —
No. 11, cns. lb. 1.85 - —
No. 12, cns. lb. 2.50 - —
No. 17, cns. lb. 9.15 - —
No. 18, cns. lb. 20.15 - —
No. 19, cns. lb. 16.85 - —
No. 21, cns. lb. 3.95 - —
No. 22, cns. lb. 9.15 - —
No. 28, cns. lb. 20.70 - —
No. 33, cns. lb. 14.65 - —
Violet, D&C, No. 1, cns. lb. 13.55 - —
No. 2, cns. lb. 13.55 - —
Yellow, D&C, No. 7, cns. lb. 9.15 - —
No. 8, cns. lb. 9.15 - —
No. 10, cns. lb. 11.35 - —
No. 11, cns. lb. 11.35 - —
No. 19, cns. lb. 16.85 - —
No. 22, cns. lb. 9.15 - —
No. 33, cns. lb. 14.65 - —
No. 37, cns. lb. 13.55 - —

Dyes, coaltar, certified colors for external use drugs and cosmetics, 1-lb. lots:—
Blue, Ext. D&C, No. 1, cns. lb. 13.55 - —
Green, Ext. D&C, No. 1, cns. lb. 13.55 - —
Red, Ext. D&C, No. 1, cns. lb. 11.35 - —
No. 3, cns. lb. 24.00 - —
Yellow, Ext. D&C, No. 1, cns. lb. 9.15 - —

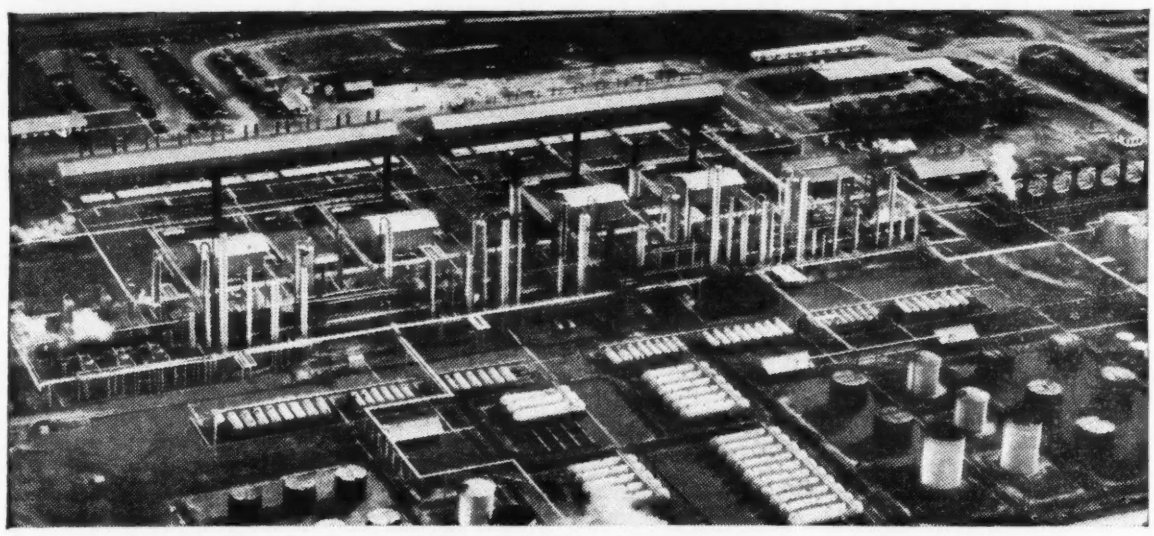
Dyes, oil-soluble, 100-lb. dms., sellers' works or warehouse.
Black, blue, No. 550. lb. .61 - —
Jet, No. 551 lb. .66 - —
Brown, R, conc. lb. 1.04 - —
Orange R, brilliant. lb. .67 - —
Red, 4 B, conc. lb. 1.03 - —
Yellow, C lb. .88 - —
FN, conc. lb. .91 - —

Dyes, spirit-soluble, same basis.
Auramine, O lb. 1.54 - —
Black, basic, blue lb. .91 - —
Jet lb. .91 - —
Blue, methylene, 2 B, conc. lb. 1.21 - —
Brown, Bismarck, R, conc. lb. .61 - —
Chrysoidine, R, extra lb. .44½- —
Y, extra lb. .48 - —
Fuchsine, conc. lb. 2.63 - —
Green, Malachite, conc. lb. 1.64 - —
Rhodamine, B lb. 4.37 - —
Safranine, Y, conc. lb. 2.19 - —
Violet, methyl, B. lb. .87 - —

Dyes, water-soluble, same basis.
Black, acid blue, B, extra lb. .61 - —
Orange, acid, Y, conc. lb. .36 - —
Rhodamine, azo-, R, extra, conc. lb. .79 - —
Scarlet, croceine, MOO lb. 1.12 - —
Yellow, azo-, conc. lb. .81 - —
Fast light, 3 G, extra lb. 1.69 - —
Methanil, conc. lb. .70 - —

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

LOOK TO CELANESE



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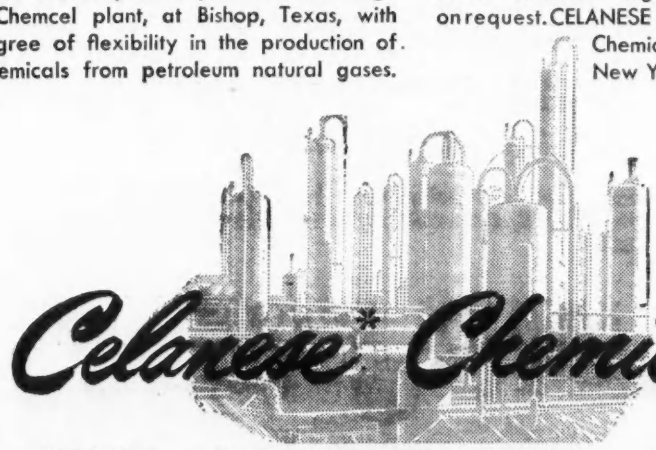
Look to Celanese as a dependable source of supply for your chemical requirements. A leading producer of Formaldehyde, Acetaldehyde and Acetic Acid, Celanese is also producing Methanol, Acetone, n-Propyl and iso-Propyl Alcohols in addition to other related organic compounds.

Fifteen years of Celanese research in the field of petroleum chemistry have provided the large Celanese Chemcel plant, at Bishop, Texas, with a high degree of flexibility in the production of organic chemicals from petroleum natural gases.

This flexibility has enabled Celanese to meet the constantly changing needs of chemical markets for basic organic chemicals and important new compounds.

New chemicals are continuously being developed in the extensive Celanese laboratories. Specifications on new products as well as data on a regular list of Celanese* organic chemicals are available on request. CELANESE CORPORATION OF AMERICA, Chemical Division, 180 Madison Ave., New York 16, N. Y.



Celanese* Chemicals

*Reg. U. S. Pat. Off.

ALDEHYDES • ALCOHOLS • ACIDS • SOLVENTS • GLYCOLS • KETONES • PLASTICIZERS

E

Echinacea root, bls. lb. .65 - .70
Egg albumen (see Albumen).
Yolk, dried, dom., bbls. lb. 1.20 - 1.25
tanners, bbls. lb. .05½- .07
Elder flowers, bright, bls. lb. .60 - .65
Elecampane root, bls. lb. .35 - .40
Elm bark, grinding, bls. lb. .35 - .36
powd., bbls., bxs. lb. .48 - .50
select, bndls. lb. .55 - .56
Emetine hydrochloride, bots. oz. 53.50 -54.00
Ephedra herb, bls. lb. .20 - .21
Ephedrine, synthetic, USP, anhydrous, bots., 100 ozs. oz. .84 - —
hydrous, bots., 100 ozs. oz. .76 - —
Hydrochloride, tin, 100 ozs. oz. .90 - —
Sulphate, cryst., tins, 100 ozs. oz. .57 - —
powd., tins, 100 ozs. oz. .58 - —
Epichlorohydrin, dms., c.l., works, lb. .46 - —
l.c.l., works lb. .46½- —
tanks, works lb. .44½- —
Epinephrine, synth., USP, bots. gram .60 - .70
Epsom salt, tech., bgs., c.l. 100 lbs. 2.30 - —
l.c.l. 100 lbs. 2.65 - —
USP, cryst., bgs., c.l. 100 lbs. 2.50 - —
l.c.l., 5,000 lbs., 1 Withdrawal, 100 lbs. 2.75 - —
smaller lots 100 lbs. 3.00 - —
Epsom salt prices freight equalized: Baltimore, Carteret, N. J.; Chicago, Cincinnati, Cleveland, Midland, Mich.
Ergot, USP, cns. lb. .90 - 1.00
Eserine, bots. oz. No prices
Sulphate, bots. oz. 60.00 -61.00
Ether, acetic (see Ethyl acetate).
Amyl, dms., c.l., works lb. .095 - —
l.c.l., works lb. .102 - —
tanks, works lb. .085 - —
Butyl, dms., l.c.l., dlvd. lb. .31 - —
Butyric (see Ethyl butyrate).
Dichlorethyl, purif., dms., works, frt. equald. lb. .13½- —
l.c.l., same basis lb. .14 - —
tanks, same basis lb. .12½- —
Ethyl (see Ether, sulphuric).
Isopropyl, dms., c.l., dlvd. lb. .06 - —
l.c.l., dlvd. lb. .06½- —
tanks, dlvd. lb. .04½- —
Nitrous, conc., bots., 100 lbs. lb. .98 - 1.10
Sulphuric, conc., dms. lb. .18 - .23
USP, anesthesia, hospital, cns. lb. .61 - .75
Synthetic, dms., c.l., frt. alld. lb. .18 - —
l.c.l., same basis lb. .19 - —
tanks, same basis lb. .16 - —
Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld. lb. .19½- —
l.c.l., frt. alld. lb. .20½- —
tanks, frt. alld. lb. .18 - —
95-98%, dms., c.l., frt. alld. lb. .20 - —
l.c.l., frt. alld. lb. .21 - —
tanks, frt. alld. lb. .18½- —
99%, dms., c.l., frt. alld. lb. .20 - .20¼
l.c.l., frt. alld. lb. .21 - .21¼
tanks, frt. alld. lb. .18½- .18¾
NF, dms. lb. .30 - —
Synthetic, 85-90%, dms., c.l., frt. alld. lb. .13½- —
l.c.l., frt. alld. lb. .14 - —
tanks, frt. alld. lb. .12 - —
95-98%, dms., c.l., frt. alld. lb. .13¾- —
l.c.l., frt. alld. lb. .14¼- —
tanks, frt. alld. lb. .12¼- —
Acetoacetate, dms., c.l., works lb. .65½- —
l.c.l., frt. alld. lb. .66½- —
Benzoate, bots. lb. .60½- .66
Betaethoxypropionate, dms., works, lb. .70 - —
Bromide, tech., 98%, dms. lb. .36 - .40
Butyrate, bots. gal. 5.50 - —
cns., works lb. .65 - .70
dms., works lb. .60 - —
Carbamate, dms., dlvd. E. lb. .58 - —
Chloride, tech., tanks lb. .13½- —
USP, bbls., cyl. lb. .20 - .22
Cinnamate, cns. lb. 2.30 - 3.25
Formate, dms. lb. No stocks
Iodide, bots. lb. 3.50 - 3.60
Lactate, dms., works lb. .38½- —
Methacrylate, M-2, dms., works lb. .60 - —
cns., works lb. .63 - .67
P-2, cns., works lb. .65 - —
Myristate, dms., works lb. No prices
Oenanthate, dms. lb. 2.60 - 3.25
Oleate, dms., l.c.l., works lb. .75 - —
Oxalate, dms., frt. alld. lb. .33 - —
Silicate, dist. (see Tetraethyl orthosilicate).
40% available SiO_2, dms., works, lb. .50 - —
Ethylalphanaphthylamine, bbls. lb. .75 - —
Ethylanilin, dms. lb. .60 - —
Ethylcellulose fib. dms., 5,000 lbs., works lb. .52 - —
smaller lots, works lb. .54 - .62

Ethyldiethanolamine, dms., l.c.l., works lb. .80 - —
Ethylene dichloride, dms., c.l., works, frt. alld. E. of Rockies...lb. .08½- —
West of Rockies.....lb. .09 - —
l.c.l., works, frt. alld. E. of Rockies..lb. .09½- —
West of Rockies.....lb. .10 - —
smaller containers .....lb. .12½- —
tanks, frt. alld. E. Rockies....lb. .07 - —
West of Rockies.....lb. .07½- —
Oxide, dms. c.l., works.....lb. .20 - —
l.c.l., works .....lb. .21 - —
tanks, works .....lb. .15 - —
Trichloride (see Trichloroethane).
Ethylenediamine, tanks, works....lb. .50 - —
Ethyleneglycol, dms., c.l., frt. alld. E..lb. .13½- —
l.c.l., same basis.....lb. .14½- —
tanks, same basis.....lb. .12 - —
Monobutylether, dms., c.l., works.lb. .21 - —
l.c.l., works .....lb. .22 - —
tanks, works .....lb. .20 - —
Monoethylether, dms., c.l., works.lb. .17 - —
l.c.l., works .....lb. .18 - —
tanks, works .....lb. .16 - —
Monoethylether acetate, dms., c.l., works..lb. .15 - —
l.c.l., works .....lb. .16 - —
tanks, works .....lb. .14 - —
Monomethylether, dms., c.l., works.. lb. .18 - —
l.c.l., works .....lb. .19 - —
tanks, works .....lb. .17 - —
Monomethylether acetate, dms., c.l., works..lb. .23 - —
l.c.l., works .....lb. .24 - —
tanks .....lb. .22 - —
Ethylethanolamines, mixed, dms., c.l., works..lb. .27 - —
l.c.l., works.....lb. .30 - —
Ethylmonoethanolamine, l.c.l., dms., works..lb. .80 - —
Ethylmorphine, hydrochloride, bots.oz.11.85 - —
Ethylorthotoluidine, bbls. .....lb. .80 - —
Ethylvanillin, cns., 5 lbs. or more..lb. 6.75 - —
smaller lots .....lb. 6.80 - 6.90
Eucalyptol, USP, cns., dms.....lb. 2.25 - 4.00
Eucalyptus leaves, bls.....lb .14 - .15
Eugenol, prime USP XII.....lb. 2.35 - 3.25
Euphorbia, pil., herb, bls.....lb. .17 - .18

F

Feldspar, enamel, 100 mesh bgs., works. ton.17.00 -20.50
bulk, c.l., works.....ton.14.00 -17.50
Glass, 20 mesh, bgs., tons, works. ton.12.75 -16.25
bulk, c.l.....ton. 9.75 -12.25
Pottery, bgs., l.c.l., 2 tons, works.ton.20.00 -22.00
bulk, c.l., works.....ton.17.00 -19.00
Fennel seed, Argentine, bgs., futures, lb. .07 - .07½
Indian, bgs., afloat.....lb. .15 - .15½
Fenugreek, domestic, bgs.....lb. .10 - .10½
Indian, bgs. .....lb. .09½- .10
futures, bgs. .....lb. .09 - .09½
Ferric sulphate (see Iron sulphate, ferric).
Film scrap, colored, cs., works....lb. .14½- —
water-white, cs., works.....lb. .15½- —
Fir balsam, Canada, cns.....lb.30.00 -32.00
Oregon, bbls. .....gal. 2.45 - 2.65
Fishberries, bgs. .....lb. .24 - .25
Fishliver oils (see Oil, fishliver).
Fishmeal, grd., 60% protein, bgs., Balto. area..ton.135.00 - —
65% protein, bgs., Balto. area..ton.165.00 - —
Fishscrap, dried, 60% protein, bulk, Balto. area..ton.135.00 - —
Fleaseed, black, bgs.....lb. .45 - .46
blonde, bgs. .....lb. .27 - .30
Husks, bgs. .....lb. .80 - .85
Fluorspar, No. 1, ground 95-98% CaF_2, bulk, c.l., mines..net ton.37.00 - —
washed gravel, 70% or more, CaF_2, bulk, c.l., mines..ton.33.00 - —
65% bulk, c.l., mines.....ton.32.00 - —
60% bulk, c.l., mines.....ton.31.00 - —
less than 60%, bulk, c.l., mines.. ton.30.00 - —
Formaldehyde, bbls., c.l., works...lb. .0645- .0695
l.c.l., works .....lb. .0695- .0745
dms., extra, c.l., works.....lb. .0545- .0595
l.c.l., works .....lb. .0595- .0645
tanks, works .....lb. .0370- .0420
tanktrucks, dlvd. N.Y.C. .....lb. .0395- .0445
Fringetree bark, bls.....lb. .65 - .66
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines..ton.30.00 - —
Tex. mines .....ton.27.00 - —
spent, bulk, Bayonne.....ton. 2.00 - 4.00
imp., bgs., c.l.....ton.30.00 -40.00
Furfural, tech., dms., c.l., works.lb. .13 - —
dms., cns., l.c.l., works.....lb. .15½- .20½
tanks, works .....lb. .09½- —
Fusel oil, refined, dms., c.l.....lb. .29½- —
l.c.l. .....lb. .30½- —
tanks .....lb. .28 - —
Fustic extract, cryst., No. 1, bbls., l.c.l..lb. .42½- —
No. 1A, bbls., l.c.l.....lb. .41½- —
No. 2, bbls., l.c.l.....lb. .40½- —
No. 3, bbls., l.c.l.....lb. .38½- —
Fustic extract, liquid, No. 0, bbls., l.c.l..lb. .22 - —
No. 1, bbls., l.c.l.....lb. .20½- —
No. 2, bbls., l.c.l.....lb. .19½- —
No. 3, bbls., l.c.l. .....lb. .17 - —
solid, No. 1, bxs., l.c.l.....lb. .28 - —

G

G salt, bbls.....lb. .55 - —
Galangal root, bls.....lb. .25 - .29
Gambier, plantation, bgs., ex dock..lb. .21 - .23
Extract, bbls.....lb. No stocks
Gammapicoline, 95%, dms., c.l., works. lb. 1.35 - —
Gasoline, at refinery, ex tax, Arkansas, 73-75 octane, tanks.. gal. .0925- —
Bayonne, 74 octane, tanks....gal. .093 - —
Gulf coast, 73-75 octane, tanks. gal. .0875- .093
Group 3, 73-75 octane, tanks.gal. .09 - .0925
Pennsylvania, western, U. S. motor, 74 octane, leaded tanks. gal. .1025- .1040
natural, 28-70, octane group 3, tanks..gal. .07125- —
Gelatin, silver label, ctns., dlvd....lb. 1.25 - —
export, cs.....lb. 1.35 - —
Gelatin price 5c. higher for deliveries in Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash., Wyo.
Gelsemium root, bls.....lb. .35 - .40
Gentian root, bls.....lb. .16 - .17
grd., bbls., bxs.....lb. .21 - .22
powd., bbls., bxs.....lb. .19 - .20
Geraniol, 92-96%, cns., dms.....lb. 3.40 - —
prime .....lb. 2.75 - —
Geranyl acetate, cns.....lb. 3.35 - 3.85
Ginger, oleoresin, bots.....lb. 4.25 - 4.75
Root, African, No. 1, bls.....lb. .13½- .14
Cochin, bleached, bgs.....lb. .16 - .16½
unbleached, bgs.....lb. .16 - .17
Jamaica, No. 1, bgs.....lb. .20 Nom.
No. 2, new crop, bgs., futures.lb. .16½- .17
No. 3, new crop, bgs., futures.lb. .15½- .15⅝
Rhattoon, bgs.....lb. .14⅝- .15⅛

Glauber's salt, anhyd. (see Soda sulphate).
crystal, bgs., works.....100 lbs. 1.25 - 1.75
l.c.l., bgs., works.....100 lbs. 1.75 - 2.10
Glue, bone, calcium type, 24 millipoise, 36 jellygrams, bgs., c.l., East of Midwest..lb. .21 - .24
36/56, bgs., c.l., same basis....lb. .22 - .26
58/82, bgs., c.l. same basis....lb. .23 - .26
82/108, bgs., c.l., same basis...lb. .25 - .27
Bone glue, l.c.l. prices, 1c. higher than c.l.
Hide, 100-121 (jelly test in grams), bgs., c.l., dlvd..lb. .20 - .25½
122-149, bgs., c.l., dlvd.....lb. .21 - .25½
150-177, bgs., c.l., dlvd.....lb. .22 - .27
178-206, bgs., c.l., dlvd.....lb. .23 - .28
207-236, bgs., c.l., dlvd.....lb. .24 - .29
237-266, bgs., c.l., dlvd.....lb. .25 - .30
267-298, bgs., c.l., dlvd.....lb. .26 - .31
299-330, bgs., c.l., dlvd.....lb. .27 - .32
331-362, bgs., c.l., dlvd.....lb. .28 - .33
363-394, bgs., c.l., dlvd.....lb. .29 - .34
395-427, bgs., c.l., dlvd.....lb. .30 - .35
428-460, bgs., c.l., dlvd.....lb. .31 - .36
461-494, bgs., c.l., dlvd.....lb. .32 - .37
495-529, bgs., c.l., dlvd.....lb. .33 - .38
Hide glue l.c.l. prices 1c. higher than c.l.; bbls., ½c. more than bgs.
Glycerin, crude, saponification, 88% to refiners, tanks, dlvd..lb. .34 Nom.
soaplye, 80%, tanks, dlvd.....lb. .33 Nom.
dynamite, dms., c.l., dlvd.....lb. .39½- .45¾
l.c.l., dlvd.....lb. .40 - .45¾
tanks, dlvd.....lb. .39¼- .45
high gravity, dms., c.l.....lb. .39½- .45¾
l.c.l. .....lb. .40 - .45¾
tanks .....lb. .39¼- .45
refined, BP, 98%, dms., c.l.....lb. .39¾- .45½
tanks .....lb. .39½- .46¼
USP, 95%, dms., c.l.....lb. .39½- .45¾
l.c.l. .....lb. .40 - .45¾
tanks .....lb. .39¼- .45
yellow, distilled, dms., c.l.....lb. .39⅜- .45⅝
l.c.l. .....lb. .39⅞- .45⅝

Glycine USP (see Acid, aminoacetic).
Glycol boriborate, dms.....lb. .22 - —
Stearate, dms. .....lb. .26 - —
Gold chloride, acid-brown, bots....oz.20.00 -20.50
acid-yellow, bots. .....oz.18.75 -19.00
Gold of pleasure seed, bgs., futures. lb. .30 - .31
Goldenseal root, bls.....lb. 7.25 - 7.30
powd., bxs. .....lb. 7.75 - 7.80
Gold-sodium chloride, photo, bots..oz.13.00 -13.50
USP IX, bots.....oz.14.00 -14.50
Grains of paradise, bgs.....lb. .40 - .42
Graphite, imported, amorph., powd., bgs., dlvd..lb. .04 - .06
crystalline, 88-90%, powd., bgs., ex whse..lb. .14 - .16
90-92%, powd., bgs., ex whse. lb. .16 - .19
97%, powd., bgs., ex whse....lb. .22 - .23
flake, No. 1, 90-95%, bgs., ctns., ex whse..lb. .21 - .22
No. 2, bgs., ex whse.....lb. .23 - —
Grease, house, loose.....lb. .23 - —
White, choice, loose.....lb. .25 - —
Wool (see Degras and Lanolin).
Yellow, loose.....lb. .21½- —
Green, brilliant, thioflavin, toner, molybdic, kgs., works..lb. 4.25 - 4.50
Tungstic, kgs., works.....lb. 4.25 - 4.50
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N.C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .32 - —
6-10%, bbls., same basis..lb. .33 - —
11-15%, bbls., same basis..lb. .34 - —
16-20%, bbls., same basis..lb. .34½- —

Ethyldiethanolamine—Green, Chrome

21-25%, bbls., same basis..lb. .35½- —
26-30%, bbls., same basis..lb. .35¾- —
31-35%, bbls., same basis..lb. .35½- —
36-40%, bbls., same basis..lb. .38½- —
41-45%, bbls., same basis..lb. .40 - —
46-50%, bbls., same basis..lb. .41¾- —
50% and over, bbls., same basis..lb. .42¾- —
reduced color, 5%, bbls., same basis..lb. .10 - —
6-10%, bbls., same basis..lb. .10¾- —
11-13%, bbls., same basis..lb. .11¼- —
14-16%, bbls., same basis..lb. .12 - —
17-19%, bbls., same basis..lb. .12¼- —
20-21%, bbls., same basis..lb. .12½- —
22-23%, bbls., same basis..lb. .12¾- —
24-25%, bbls., same basis..lb. .13 - —
26-27%, bbls., same basis..lb. .13½- —
28-29%, bbls., same basis..lb. .14 - —
30-31%, bbls., same basis..lb. .15 - —
32-33%, bbls., same basis..lb. .16¼- —
34-35%, bbls., same basis..lb. .17¼- —
36-40%, bbls., same basis..lb. .20 - —
41-45%, bbls., same basis..lb. .22¼- —
46-50%, bbls., same basis..lb. .23¾- —
51-55%, bbls., same basis..lb. .23½- —
56-60%, bbls., same basis..lb. .24 - —
61-65%, bbls., same basis..lb. .25 - —
66-70%, bbls., same basis..lb. .26¼- —

Chrome green prices are ½c. higher dlvd Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

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Polyalcohol for Conditioning, for Synthesis

Since 1935, when Atlas first offered sorbitol, its price trend has been generally DOWNWARD. Today, the price of high purity sorbitol is lowest in its history. In the face of an upswing in prices of other polyols and raw materials, the price of sorbitol has actually DECREASED!

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COSMETICS
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LEATHER
PAPER
GELATIN
CHEWING GUM
CANDY
TOBACCO
PHARMACEUTICALS
GASKETS
POLISHES
YEAST
SOFT DRINKS
PRINTERS' ROLLERS

—As a Manufacturing Ingredient in

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HARD RESINS
ALKYDS
ESTERS
ETHERS
PLASTICIZERS

The Atlas technical staff is especially qualified to discuss sorbitol applications with you. Bring your problems to us.

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CHEMICALS ATLAS EXPLOSIVES
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Green, Chromium Oxide—Iron Reinate

Green, chromium, oxide, hydrated, bbls., works..lb. .85 - —
pure, bgs., works..lb. .80 - .83
Malachite, thioflavin toner, molybdic, bbls., works..lb. 3.00 - —
Tungstic, bbls., works..lb. 3.40 - —
Paris (see P).
Phthalocyanin toner, bbls., works, lb. 4.10 - 5.00
Tungstated, brilliant, kgs..lb. 3.00 - 4.00
Emerald, kgs..lb. 2.00 - —
Verdigris (see V).
Dyes (see Dyes, coaltar).
Grindelia robusta herb, bls..lb. .30 - .35
Guaiac resin, cs..lb. .48 - .49
Wood, bls..lb. .35 - .36
Guaiacol, cryst., NF, tins..lb. 1.75 - —
liquid, NF, bots., cbys..lb. 1.80 - —
Carbonate, NF, dms..lb. 2.85 - —
Guarana, powd., cs..lb. 2.00 - 2.10
Gum, acroides (see Gum, yacca).
Aloe (see A.)
Ammoniac, tears, cs..lb. .90 - .95
Arabic, amber, sorts, bgs..lb. .14½ - .15
white, sorts, 1, bgs..lb. .28 - .29
powdered, USP, bbls..lb. .20½ - .21
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs..lb. .80 - .85
Camphor (see C).
Copal, Congo, No. 1, bgs..lb. .26 - .28
No. 2, bgs..lb. .22 - .24
No. 3, bgs..lb. .20 - .22
Macassar DBB, bgs..lb. .24 - .25
MA, bgs..lb. .24 - .25
lobs, C, bgs..lb. .27½ - .29
Philippine, 1st quality, bgs..lb. .27 - .30
2nd quality, bgs..lb. .26 - .27
3rd quality, bgs..lb. .20 - .23

Gum, dammar, Batavia, AE, cs..lb. .27 - .29
E, cs..lb. .18½ - .20½
Singapore, No. 1, cs..lb. .29½ - .31½
No. 2, cs..lb. .24 - .26
East India, black, bold, bgs..lb. .14½ - .16
Batu, bold, bgs..lb. .11½ - .13
nubs, bgs..lb. .08½ - .09½
Elemi, cns..lb. .27 - .29
Ester, gum-rosin type, dms., c.l., dlvd, Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va..lb. 16¾ - —
wood-rosin type, dms., any quantity, dlvd., Ill., Ind., etc..lb. .16¾ - —
Euphorbium, cs..lb. .50 - .55
Galbanum, cs..lb. .85 - .90
Gamboge, pipe, cs..lb. 1.70 - 2.00
powd., bbls..lb. 1.95 - 2.25
Ghatti, No. 2, bgs..lb. .35 - .37
No. 3, bgs..lb. .31 - .33
Guaiac (see Guaiac resin).
Karaya, No. 1..lb. .46 - .51
No. 2..lb. .38 - .43
No. 3..lb. .33 - .36
No. 4..lb. .28 - .31
No. 5..lb. .23 - .27
No. 6..lb. .20 - .22
Kauri, bgs..lb. .51 - —
*Locust bean, powd., bgs..lb. .42 - .48
Mastic, cs..lb. 2.25 - —
Myrrh, cs..lb. .45 - .46
Olibanum, siftings, cs..lb. .12 - .13
tears, cs..lb. .22 - .38
Opium (see O).
Red (see Gum yacca).
Rosin (see R).

Gum, sandarac, cks..lb. .95 - 1.00
Scammony, cs..lb. 1.50 - 1.55
Sterculia (see Gum, karaya).
Talha, bgs..lb. .10 - .11
Tragacanth, No. 1, cs..lb. 3.60 - 3.70
No. 2, cs..lb. 3.20 - 3.25
No. 3, cs..lb. 2.25 - 2.50
powdered, USP, bbls..lb. 1.35 - 1.45
Yacca, bgs..lb. .06 - .07
Gypsum, Keane's cement, paper bgs., c.l., Acme, Tex., frt. equald..ton.22.65 - —
Harlem river, N. Y., frt. equald..ton.28.25 - —
Medicine Lodge, Kans., frt. equald..ton.17.00 - —
New Brighton, N. Y., frt. equald..ton.30.65 - —
Southard, Okla., frt. equald..ton.17.00 - —
Sweetwater, Tex., frt. equald..ton.21.45 - —
Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald..ton.12.50 - —
Blue Rapids, Kans., frt. equald..ton.10.50 - —
Harlem river, N. Y., frt. equald..ton.12.00 - —
Medicine Lodge, Kan., frt. equald..ton.12.50 - —
New Brighton, N. Y., frt. equald..ton.18.00 - —
Southard, Okla., frt. equald..ton.12.50 - —
Sweetwater, Tex., frt. equald..ton.12.50 - —
Stucco, paper bgs., c.l., Acme, Texas, frt. equald..ton. 8.00 - —
Akron, N. Y., frt. equald..ton. 8.00 - —
Blue Rapids, Kans., frt. equald..ton. 8.00 - —
Clarence Center, N. Y., frt. equald..ton. 8.00 - —
Gypsum, stucco, paper bgs., c.l., Fort Dodge, Iowa, frt. equald..ton. 8.00 - —
Grand Rapids, Mich., frt. equald..ton. 8.00 - —
Gypsum, Ohio, frt. equald..ton. 8.00 - —
Harlem river, N. Y., frt. equald..ton. 8.00 - —
National City, Mich., frt. equald..ton. 8.00 - —
New Brighton, N. Y., frt. equald..ton. 8.00 - —
Plasterco, Ga., frt. equald..ton. 8.00 - —
Portsmouth, N. H., frt. equald..ton. 8.00 - —
Roton, Texas, frt. equald..ton. 8.00 - —
Saltville, Va., frt. equald..ton. 9.00 - —
Southard, Okla., frt. equald..ton. 8.00 - —
Sweetwater, Texas, frt. equald..ton. 8.00 - —
Terra alba, paper bgs., c.l., Harlem river, N. Y.; works..ton.22.50 - —
New Brighton, N. Y., works..ton.21.00 - —

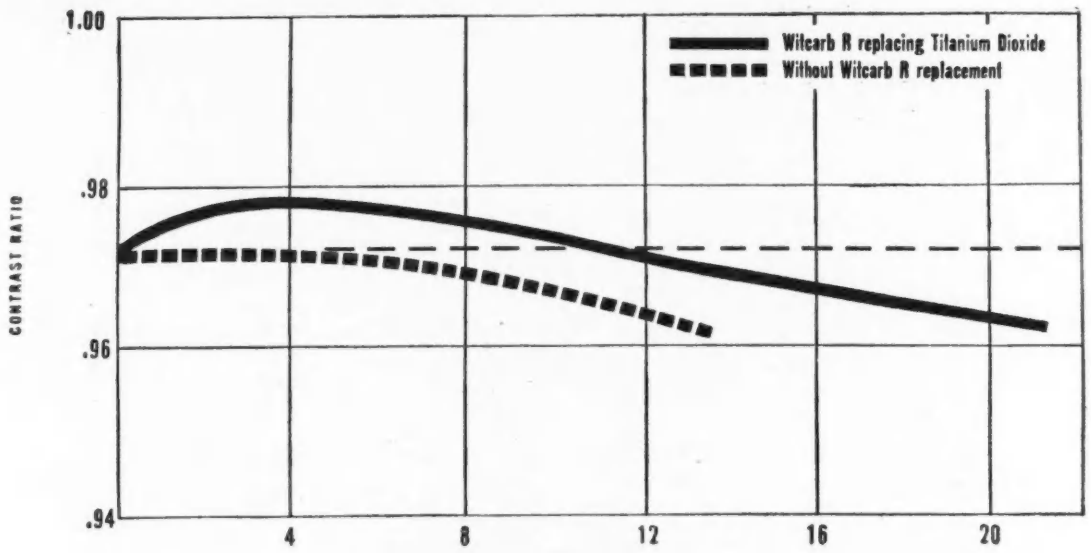
H

Hawthorn berries, bg..lb. .57 - .58
Heliotropin, cryst., cns..lb. 3.25 - 4.00
Hellebore, white, powd., bbls..lb. .70 - .71
Helonias root, bls..lb. 2.20 - 2.25
Hematine extract, cryst., No. 0, bbls., l.c.l..lb. .45½ - —
No. 1, bbls., l.c.l..lb. .44½ - —
No. 1A, bbls., l.c.l..lb. .41½ - —
No. 2, bbls., l.c.l..lb. .40½ - —
No. 3, bbls., l.c.l..lb. .38½ - —
No. 4, bbls., l.c.l..lb. .36½ - —
No. 5, bbls., l.c.l..lb. .34½ - —
paste, No. 1, bbls., l.c.l..lb. .19 - —
No. 2, bbls., l.c.l..lb. .18 - —
No. 3, bbls., l.c.l..lb. .17 - —
No. 4, (red), bbls., l.c.l..lb. .12½ - —
Hemlock bark extract, 25% tannin, bbls., c.l., works..lb. No stocks
tanks, works..lb. No stocks
Henbane leaves, bls..lb. 1.00 - 1.25
Henna leaves, bls..lb. .25 - .28
powd., bbls., bxs..lb. .34 - .36
Heptane, industrial, 90°-100° C., dms., c.l., group 3..gal. .15½ - .17
l.c.l., group 3..gal. .21 - .60
tanks, group 3..gal. .11½ - .11¾
77°-115° C., dms., c.l., group 3..gal. .14½ - .17
l.c.l., group 3..gal. .21 - .60
tanks, group 3..gal. .10½ - .11
laboratory, dms., c.l., group 3..gal. .18 - —
l.c.l., group 3..gal. .30 - .60
Hexalin (see Cyclohexanol).
Hexaethyl tetraphosphate, cns., works, lb. 1.25 - —
dms., c.l., works..lb. .80 - —
l.c.l., works..lb. .90 - 1.00
Hexamethylene-tetramine, tech., bbls., 1,000-lb. lots, Perth Amboy or N.Y.C..lb. .28 - —
smaller lots, same basis..lb. .29 - —
USP, dms., 500 lbs. or more, same basis..lb. .35 - —
smaller lots, same basis..lb. .36 - —
Hexane, industrial, 60°-70° C., dms., c.l., group 3..gal. .16½ - .17
l.c.l., group 3..gal. .21 - .60
tanks, group 3..gal. .12 - .12¼
laboratory, dms., c.l., group 3..gal. .18 - —
l.c.l., group 3..gal. .30 - .60
Hexanol, normal, dms., l.c.l., works..lb. .25 - —
Homatropine, hydrobromide, bots..oz.15.00 -25.00
Hydrochloride, bots..oz.20.00 -22.00
Hoofmeal, 17-18% ammonia bulk, c.l., Chicago..unit-ton. 8.50 - —
Hops, NF, bls..lb. .55 - 1.30
Horehound, bls..lb. .12 - .13
Hydrangea, root, bls..lb. .22 - .25
Hydrastine, bots..oz 20.00 -22.00
Sulphate, bots..oz.20.00 -22.00
Hydrastinine, 10-grain bots..bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrofuramide dms., fib. cns., works, lb. .30 - .40
Hydrogen peroxide, USP, bbls..lb. .03¾ - .05
100 vols., cbys., E. of Miss. or West coast via Panama Canal..lb. .15½ - .18½
Hydroquinone, bbls., dms..lb. .90 - .94
Hydroxycitronellal, cns..lb. 6.50 - 7.50
Hyoscine hydrobromide, bots..oz.39.00 -45.00
Hyoscyamine, bots..oz.18.00 -20.00
Hydrobromide, bots..oz.18.00 -19.50
Sulphate, bots..oz.14.00 -19.50
Hypernic extract, cryst., No 1, bbls., l.c.l..lb. .52½ - —
No. 2, bbls., l.c.l..lb. .44½ - —
liquid, No. 1, bbls., l.c.l..lb. .28½ - —
No. 2, bbls., l.c.l..lb. .23½ - —
solid, No. 1, bxs., l.c.l..lb. .41 - —
Hyssop herb, bgs..lb. .50 - .55
Leaves, bgs..lb. .55 - .60

I

Iceland moss, bgs..lb. .50 - .52
Ichthammol, NF, bots..lb 2.45 - —
Indian red (see Red, Indian).
Indigo, nat., chests..lb. 2.14 - 2.80
synth., paste, bots..lb. .16½ - .19
powd., bbls..lb .74½ - .85
Indol, CP, bots..lb.18.00 -23.00
Inositol, tins, dlvd..lb. 5.00 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs., ex whse., Staten Island..lb. 1.729 - —
resubl., bots., jars..lb. 2.35 - 2.65
Iodoform, dms., kgs..lb. 4.45 - —
Ionone ketone, alpha, cns..lb.12.30 -16.40
beta, cns..lb. 9.00 -12.50
pure, cns..lb. 5.95 - 7.95
Methyl (see M).
Ipe', bots., 1-5 lbs..lb. 2.68 - 2.72
fib. dms., 100 lbs., ship't. point..lb. 2.30 - 2.50
50 lbs., ship't point..lb. 2.40 - 2.52
10-25 lbs., ship't point..lb. 2.50 - 2.54
Ipecac root, bgs..lb. 5.25 - 6.30
powd., bgs..lb. 5.45 - 5.50
Irish moss, bleached, prime, bls..lb. .20 - .21
Iron acetate, liquor, 28°, bbls., c.l., works..lb. .09 - —
l.c.l., works..lb. .09¾ - —
solut., USP IX, cbys..lb. .17 - —
djns..lb. .18 - —
Chloride (ferric), anhydr., tech., dms., c.l., works..100 lbs. 4.90 - 5.25
l.c.l., works..100 lbs. 6.50 - 6.85
cryst., tech., bbls., works, frt. alld. 100 lbs. 4.00 - 6.00
USP X, lump, bbls..lb. .07 - .08¼
solut., 42 Be, cbys., works, frt. alld. or equald..lb. .05½ - .06
djns., same basis..lb. .10 - —
Citrate, gran., dms..lb. .77 - .79
Glycerophosphate, N.F., powd..lb. 4.35 - —
Hypophosphite, bbls., dms..lb. 1.50 - 1.52
Iodide, bots..lb. 3.48 - 3.63
Naphthenate, 6% Fe, dms..lb. .19½ - —
Nitrate, red, tech., dms..lb. .03½ - .04
Oxalate, gran., dms..lb. .83 - .85
Phosphate, soluble, NF, gran., cs..lb. .64 - .65
Pyrophosphate, soluble, NF VII, gran., dms..lb. .69 - .72
Reduced, 90%, kgs..lb. .65 - .75
Resinate, 7.4%, Fe, dms..lb. .22 - —

Hiding Power



Weight % Witcarb R substituted and/or weight % Titanium Dioxide Deducted

FORMULATION

	For 100-102 gals.
Titanium Dioxide	296 to 237 lbs.
Witcarb R	0 to 59 lbs.
Refined Linseed Oil	26 gals.
Medium Oil Alkyd Resin Solution, 49% solids	65 gals.

WITCARB R, when used in the manufacture of quality paints in quantities up to 10 to 12% of total pigment volume, improves performance in several respects:

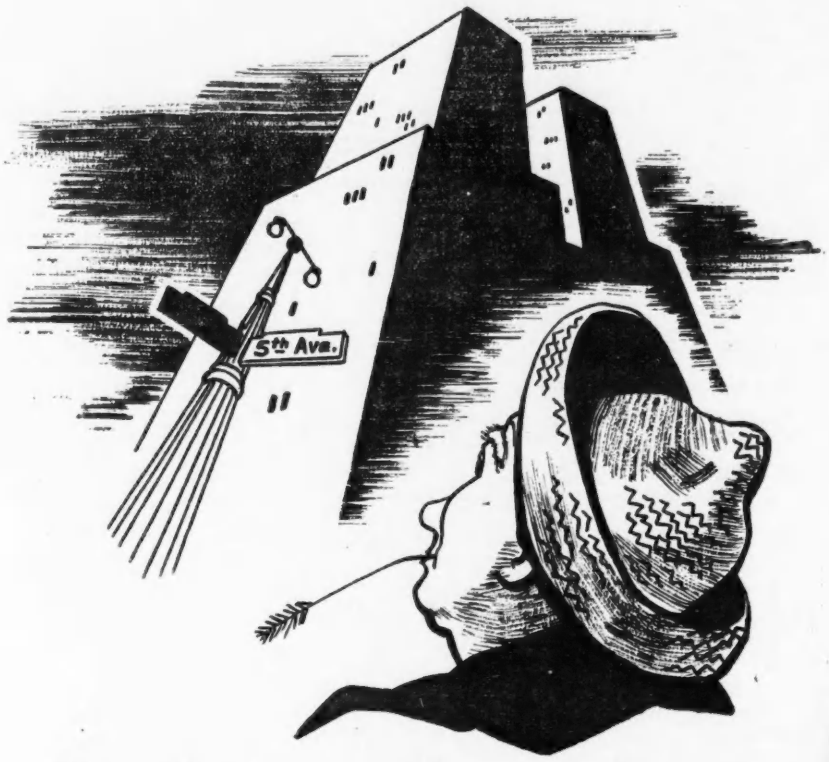
1. ADDS TO DEPTH OF COLOR
2. CHECKS FLOWING
3. PREVENTS COLOR SEPARATION
4. RETARDS PENETRATION
5. GIVES HARDER FILMS

And right now there is still another important reason for using Witcarb R:

6. IT CONSERVES SCARCE PIGMENTS WITH NO LOSS IN HIDING POWER.

Ask for samples of Witcarb R and see for yourself. Or better still, request a call from a technical representative.

WITCO CHEMICAL COMPANY
MANUFACTURERS AND EXPORTERS
295 MADISON AVENUE · NEW YORK 17, NEW YORK
LOS ANGELES • BOSTON • CHICAGO • DETROIT • CLEVELAND • AKRON
SAN FRANCISCO • LONDON AND MANCHESTER, ENGLAND



No Johnny-Come-Lately

For two generations we have served buyers and sellers of chemicals . . . gained an intimate knowledge of world markets, built confidence and personal friendships in all chemical centers, learned how to match supply and demand to mutual advantage. Today we possess a timely knowledge of prices, currency and quota restrictions, export-import regulations, etc. from constant contacts all over the world.

If you are a producer seeking specialized outlets on certain items, we may be able to help you in export and domestic markets, or

If you are a consumer of chemicals listed, we would like to discuss our ability to fill your needs more advantageously.

NEUBERG CHEMICALS

ENCO CHEMICAL CORPORATION
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ACETIC ANHYDRIDE
ALUMINA HYDRATE
ALUMINUM HYDROXIDE U.S.P.
ALUMINUM CHLORHYDROL
ALUMINUM CHLORIDE
ACETONE
ACETANILID
ACID SODIUM PYROPHOSPHATE
BARIUM HYDRATE
BARIUM SULFATE
BARIUM PEROXIDE
BENZOATE OF SODA
BICARBONATE OF SODA
BENZENE HEXACHLORIDE
BENZOYL PEROXIDE
BLANC FIXE
CARBON TETRACHLORIDE
CARBON BISULPHIDE
CAUSTIC POTASH
CAUSTIC SODA
CITRIC ACID
CALCIUM CITRATE
CREAM OF TARTAR
DDT
EPSOM SALT
LECITHIN
LITHIUM SALTS
PERCHLORETHYLENE
PHOSPHORIC ACID
PHOSPHOROUS (RED AMORPHOUS)
ROCHELLE SALT
SAPONIN
SODIUM SULPHIDE
SODA ASH
SODIUM TRIPOLY PHOSPHATE
SODIUM TETRA PYROPHOSPHATE
TARTARIC ACID
TARTAR EMETIC
TRICHLORETHYLENE
VANILLIN

Iron Stearate—Liverwort Leaves

Iron stearate, dms., c.l.....lb. .46 - —
ton lots.....lb. .47 - —
less ton lots.....lb. .48 - —
Sulphate (ferric), anhyd, bgs., c.l., works..ton.35.00 - —
l.c.l., works.....ton.40.00 - —
partially hydrated, bgs., c.l., works..ton.26.50 - —
(ferrous), tech, (see Copperas).
USP, cryst., bbls., dms.....lb. .06 - .08
Iron-ammonium citrate, brown, green, gran., dms..lb. .45 - .46
Oxalate, bbls.....lb. .23½- —
dms., bgs.....lb. .25½- .26½
Iron-sodium oxalate, fine gran., bbls., dms..lb. .23½- .26½
Isobornyl acetate, cns.....lb. .97 - 1.10
Thiocyanoacetate, dms., c.l., works, gal. 3.85 - —
l.c.l., works.....gal. 3.85 - 4.05
tanks, works .....gal. 4.23 - —
Isobutyl acetate, cns.....lb. .97 - 1.10
Methacrylate, M-5, dms., works..lb. .60 - —
cns., works .....lb. .63 - .67
P-5, cns., works.....lb. .60 - —
Propionate, cns. .....lb. No prices.
Isobutyraldehyde, dms., works.....lb. .33 - .36
Isoeugenol, extra, cns.....lb. 3.25 - 4.00
cbys., extra.....lb. 3.10 - —
Isopentane, dms., works.....lb. .45 - .55
Isophorone, dms., c.l., works.....lb. .21 - —
l.c.l., works .....lb. .22 - —
tanks, works .....lb. .20 - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., frt. alld., E. of Rockies..lb. .1160- .1260
l.c.l., same basis.....lb. .1210- .1300
tanks, same basis.....lb. .1100- .1160
Alcohol (see Alcohol, isopropyl).
Ether (see Ether, isopropyl).
Phenylcarbamate (see IPC).
Isopropylamine, dms., works.....lb. .35 - —

J

Jaborandi leaves, bls.....lb. .17 - .18
Jalap root, NF, bls.....lb. .44 - .49
powd., bbls., bxs.....lb. .50 - .55
Resin, lump, cns.....lb. 5.85 - —
powd., bxs. .....lb. 5.90 - —
Juniper berries, bgs.....lb. .12 - .20
Tar, USP, dms.....lb. .50 - .92

K

Kamala, powd., cns.....lb. .46 - .48
Kaolin (see China clay).
Kava kava root, bls.....lb. .35 - .40
Kerosene, at refinery: Ark., 42-44 w.w., tanks..gal. .08125- —
Bayonne, 41-43, w.w., tanks...gal. .0840- .1165
Gulf ports, 41-43, w.w., tanks..gal. .0725- .0775
Okla.-Tex., 41-43, w.w., tanks..gal. .07875-.08125
Penn., 45 w.w., tanks.....gal. .10 - .105
47 w.w., tanks.....gal. .0975- .105
Kola nuts, bgs.....lb. .06 - .09
Kyanite, imp., low iron content, 10-mesh, whse..ton.85.00 -95.00
calcined, grain, 10-mesh, whse..ton.95.00 -105.00

L

Ladyslipper root, bls.....lb. 1.80 - 2.00
Lanolin, anhyd., cosmetic, dms., works, lb. .25 - —
USP, dms., works.....lb. .23 - —
hydrous, cosmetic, dms., works...lb. .23½- —
USP, dms., works.....lb. .21½- —
Lard, cash, trcs., Chicago.....lb. .25½- .26
Larkspur seed, bgs.....lb. .55 - .57
Laurel berries, bls.....lb. .25 - .26
Leaves, Algerian, bls.....lb. .13 - .13½
Cyprian, bls. .....lb. .11 - .11½
Greek, bls.....lb. .11½- .12
Portuguese, good, bls.....lb. .10½- .11
ordinary, bls.....lb. .10 - .10½
Turkish, choice, bls.....lb. .17 - .17½
ordinary, bls. .....lb. .10½- .11
Lavender flowers, medium, bls.....lb. .66 - —
ordinary, bls.....lb. .30 - .31
select, bls.....lb. .75 - —
Lead acetate, white, broken, bbls..lb. .18½- —
cryst., bbls.....lb. .19¼- —
gran., powd., bbls.....lb. .19¼- —
Arsenate, basic, powder, 3-lb. bgs. or larger, c.l...lb. .21¾- —
l.c.l. .....lb. .22¾- .23¾
1-lb. bgs., c.l.....lb. .29¼- —
l.c.l.....lb. .30¼- .31¼
Lead arsenate prices are works or frt. alld. on 96 lbs. or more to dest. East.
Blue, basic sulphate, bbls., c.l., ship't point, frt. alld..lb. .13¼- —
l.c.l., works .....lb. .15¾- —
Carbonate (see Lead, white).
Chloride, fib. dms. .....lb. .49 - —
Iodide, NF V, jars.....lb. 2.90 - 3.06
Linoleate, solid, 13% bbls.....lb. .41¾- —
Metal, pigs, prime, N. Y.....lb. .15 - —
E. St. Louis.....lb. .1480- .1485

Lead, metallic, paste, dms., 10,000-40,000 lbs., works..lb. .27½- —
2,000-10,000 lbs., same basis....lb. .28½- —
up to 2,000 lbs., same basis..lb. .30 - —
Naphthenate, liquid, 21% Pb, dms.lb. .20½- —
30% Pb, dms.....lb. .24¾- —
solid, 37% Pb, dms.....lb. .27½- —
Nitrate, bbls., c.l. .....lb. .17¾- —
l.c.l. .....lb. .18 - —
Oleate, bbls.....lb. .33½- —
Peroxide, powd., tech., bbls.....lb. .29 - .31
Red, 95% Pb_3O_4 or less, bbls., c.l., ship't point, frt. alld..lb. .1760- —
l.c.l., 5 tons, same basis....lb. .1800- —
smaller lots, same basis..lb. .1860- —
97% Pb_3O_4, bbls., c.l., same basis. lb. .1785- —
l.c.l., 5 tons, same basis....lb. .1825- —
smaller lots, same basis...lb. .1875- —
98% Pb_3O_4, bbls., c.l., same basis. lb. .1810- —
l.c.l., 5 tons, same basis....lb. .1850- —
smaller lots, same basis..lb. .1900- —
Resinate, precip., 23.8% Pb., dms. lb. .25 - —
Silicate, bgs. .....lb. .17 - .17½
Soyate, 26.15% Pb, dms.....lb. .33¾- —
Stearate, bbls., c.l.....lb. .52 - —
ton lots.....lb. .53 - —
less ton lots.....lb. .54 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate).
Tallate, liquid, 16% Pb, dms.....lb. .14 - —
solid, 30% Pb, dms.....lb. .19 - —
White, basic carbonate, bgs., c.l., ship't point, frt. alld..lb. .16 - —
l.c.l., works .....lb. .16¼- .16½
basic silicate, bgs., c.l., ship't point, frt. alld..lb. .18½- .19¼
l.c.l., same basis.....lb. .19 - .19¾
basic sulphate, bgs., c.l., ship't point, frt. alld..lb. .15¼- —
l.c.l., works .....lb. .15¾- —
Lecithin, edible, tech., bleached, dms., nor-ret., c.l., works..lb. .28 - —
l.c.l., same basis.....lb. .26 - .31
unbleached, c.l., same basis..lb. .26 - —
l.c.l., same basis.....lb. .25 - .29
Lemon peel, bls.....lb. .25 - .30
Licorice extract, mass, cns.....lb. .30 - .32
powd., bbls. .....lb. .40 - .42
Root, bls. .....lb. .09 - .10
5-lb. bundles, cs. .....lb. .60 - .65
powd., bbls. .....lb. .14 - .15
Lignin extract, tanning grade, bgs., c.l., works..lb. .04¾- —
Lime, agricultural, bulk, works..tons. 9.00 - 9.50
Chemical (quicklime), lump, pebble, bulk, Adams, Mass.....ton. 9.00 - —
Annville, Pa.....ton. 9.00 - —
Bellefonte, Pa. .....ton. 9.00 - —
Berkeley, W. Va.....ton. 9.00 - —
Buffalo, N. Y. .....ton.10.75 - —
Carey, Ohio .....ton. 7.00 - —
Cedar Hollow, Pa.....ton. 9.50 - —
Crab Orchard, Tenn.....ton. 8.50 - —
Eagle Mountain, Va.....ton. 8.50 - —
Farnams, Mass. .....ton. 9.00 - —
Gibsonburg, Ohio.....ton. 7.50 - —
Hannibal, Mo. .....ton. 7.50 - —
Keystone, Ala. .....ton. 8.50 - —
Knoxville, Tenn.....ton. 8.50 - —
Limedale, Ark. .....ton. 8.00 - —
Longview, Ala.....ton. 8.50 - —
Mitchell, Ind.....ton. 7.50 - —
Newala, Ala.....ton. 8.50 - —
Manistique, Mich.....ton. 8.00 - —
Marblehead, Ohio.....ton. 8.50 - —
Martinsburg, W. Va.....ton. 9.00 - —
Menominee, Mich.....ton. 8.00 - —
Ripplemead, Va.....ton. 8.50 - —
Riverton, Va.....ton. 8.50 - —
Rockland, Maine.....ton. 8.00 - —
Scioto, Ohio.....ton. 6.50 - —
Sherwood, Tenn.....ton. 8.39 - —
Sherwood, Wis.....ton. 8.50 - —
Springfield, Mo.....ton. 8.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 8.50 - —
hydrated, paper bgs., Adams, Mass. ton.11.25 - —
Annville, Pa.....ton.11.50 - —
Bellefonte, Pa. .....ton.11.50 - —
Berkeley, W. Va.....ton.10.00 - —
Buffalo, N. Y.....ton.11.50 - —
Carey, Ohio.....ton. 9.00 - —
Cedar Hollow, Pa.....ton.11.50 - —
Crab Orchard, Tenn.....ton.11.65 - —
Eagle Mountain, Va.....ton.10.00 - —
Engle, W. Va.....ton.11.50 - —
Farnams, Mass.....ton.11.00 - —
Gibsonburg, Ohio.....ton. 9.50 - —
Hannibal, Mo.....ton. 9.50 - —
Keystone, Ala. .....ton.12.25 - —
Knoxville, Tenn.....ton.11.00 - —
LeRoy, Minn.....ton.10.00 - —
Limedale, Ark.....ton.10.00 - —
Longview, Ala.....ton.12.25 - —
Marblehead, Ohio.....ton.10.50 - —
Mitchell, Ind.....ton.10.00 - —
Manistique, Mich.....ton. 9.50 - —
Newala, Ala.....ton.12.25 - —
Petoskey, Mich.....ton.10.00 - —
Port Island, Mich.....ton. 9.00 - —
Rapid City, S. Dak.....ton.12.00 - —
Ripplemead, Va.....ton.10.00 - —
Rockland, Maine.....ton. 9.00 - —
Scioto, Ohio.....ton. 8.00 - —
Sherwood, Tenn.....ton.12.14 - —
Sherwood, Wis.....ton.10.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton.11.50 - —
Spray, paper bgs., Adams, Mass..ton.11.70 - —
Annville, Pa.....ton.11.50 - —
Bellefonte, Pa.....ton.11.50 - —
Carey, Ohio.....ton.11.00 - —
Engle, W. Va.....ton.11.50 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio.....ton.10.00 - —
Marblehead, Ohio.....ton.10.00 - —
Rockland, Me.....ton.10.00 - —
Scioto, Ohio.....ton.10.00 - —
Woodville, Ohio.....ton.10.00 - —
York, Pa.....ton.11.50 - —
Lime-ammonia-nitrogen, 20.5% N (see Ammonium nitrate-limestone).
Limestone, grd., bulk, works...ton. 1.40 - —
Linalool, ex bois de rose.....lb. 5.10 - 6.85
ex lignaloe wood.....lb. 6.50 - 7.00
Linalyl acetate, ex bois de rose, bots.lb. 4.35 - 7.20
ex lignaloe wood, bots.....lb. 8.25 - 8.40
ex petitgrain, bots.....lb. 5.10 - 6.35
Linden flowers with leaves, bls.....lb. .35 - .36
without leaves, bls.....lb. .35 - .36
Linseed meal, 34% bulk, Midwest mills. ton.85.00 -86.00
Litharge, com'l, powd., bbls., c.l., ship't point, frt. alld..lb. .1660- —
l.c.l., 5 tons, same basis..lb. .17 - —
smaller lots, same basis.....lb. .1760- —
Lithium bromide, bbl., works, frt. equald..lb. 1.90 - —
Carbonate, NF, bbls., kgs.....lb. 1.15 - —
Chloride, jars .....lb. 1.15 - 1.65
Citrate, bbls., dms., kgs.....lb. 1.30 - 1.45
Fluoride, bbls. .....lb. 1.90 - —
Hydroxide, jars .....lb. 1.15 - 1.25
Lime salts (see Calcium).
Lithopone, ordinary, bgs., c.l., ship't point..lb. .06 - —
l.c.l., same basis.....lb. .06¾- —
bbls., c.l., same basis.....lb. .06¼- —
l.c.l., same basis.....lb. .06¾- —
Titanated (high-strength), bgs., c.l. lb. .07¾- —
smaller lots .....lb. .08 - —
bbls., c.l. .....lb. .08 - —
smaller lots .....lb. .08¼- —
Lithopone Pac. Cst. prices ¾c. higher.
Liverwort leaves, bls.....lb. .85 - .95

Complete integration of its manufacturing facilities plus economical water borne supply of its own principal raw materials, make *Pittsburgh* Coke & Chemical Company a reliable source of supply for Coal Chemicals and associated products. Inquiries for any of the products listed below are invited and, for special applications, technical assistance and recommendations are available for the asking.

Lobelia herb, bls. .....lb. .82 - .86
Lobeline sulphate, bots., works...oz.25.50 -38.00
Logwood extract, crystals, No. 1, bbls., l.c.l..lb. .38½- —
No. 2, bbls., l.c.l.....lb. .36½- —
liquid, No. 1, bbls., l.c.l.....lb. .18½- —
No. 2, bbls., l.c.l.....lb. .17½- —
No. 3, bbls., l.c.l.....lb. .17 - —
No. 4, bbls., l.c.l.....lb. .16½- —
solid, No. 1, bxs., l.c.l.....lb. .33 - —
No. 2, bxs., l.c.l.....lb. .31 - —
No. 3, bxs., l.c.l.....lb. .28½- —
No. 4, bxs., l.c.l.....lb. .28 - —
No. 5, bxs., l.c.l.....lb. .26½- —
No. 6, bxs., l.c.l.....lb. .44½- .49½
Lovage root, imp., bls.....lb. 1.20 - 1.25
Lupulin, NF VII tin....•.....lb.10.00 -11.00
Lycopodium, NF, cs.....lb. 2.35 - 2.40

M

Mace, No. 1, Siauw, cs.....lb. 1.40 - 1.45
East Indian, bgs., futures.....lb. 1.40 - 1.45
West Indian, bgs., futures.....lb. 1.35 - 1.40
Broken, futures.....lb. 1.25 - 1.30
Madder, Dutch, bgs.....lb. .29 - .32
Magnesia, calcined, tech., bbls., works..lb. .29 - —
USP, bbls.....lb. .31 - .33
Magnesium arsenate, bgs., cnns, works..lb. .20 - .30
Bromide, dms.....lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald..lb. .07¼- —
l.c.l., frt., alld.....lb. .08¼- —
bbls., c.l., frt. equald.....lb. .08½- —
l.c.l., frt. alld.....lb. .09½- —
kgs., c.l., frt. equald.....lb. .09¾- —
l.c.l., frt. alld.....lb. 10¾- —
USP, bgs., c.l., frt. equald..lb. .09 - —
l.c.l., frt. alld.....lb. .10 - —
bbls., c.l., frt. equald.....lb. .09½- —
l.c.l., frt. alld.....lb. .10½- —
kgs., c.l., frt. equald.....lb. .10¾- —
l.c.l., frt. alld.....lb. .11¾- —

Magnesium carbonate is quoted frt. alid. to N. J., except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean, and Salem counties, and to Phila. county, Pa. Frt. equald, with N. Y. C. on all other destinations.

Chloride, anhyd., bbls., dlvd.....lb. .12¾- —
flake, bbls., c.l., works.....ton.37.00 - —
l.c.l., works.....ton.44.00 -46.00
Fluoride, bbls.....lb. .20 - .25
Hydroxide, medicinal, bbls., dms., kgs..lb. .29 - .30
Hypophosphite, cns.....lb. 1.45 - —
Laurate, bbls.....lb. .46 - .47
Metal, 98.8%, ingots, cs., works...lb. .29½- —
sticks, cs.....lb. .34 - .38
Oleate, precip., bbls.....lb. .40½- —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works.....lb. 1.00 - 1.05
Phosphate, tribasic, USP, bbls....lb. .62 - .67
Silicate (see Talc).
Silicofluoride, bbls., works.....lb. .16 - —
Stearate, ctns., 2,000 lbs. to c.l...lb. .48 - —
smaller lots.....lb. .49 - —
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000 lbs.....lb. .37 - —
smaller lots.....lb. .42 - —
Magnesite, calcined, powd., bgs., c.l., mines, Calif....ton.60.00 - —
Magnesite, dead-burnt, bulk, c.l., Chewalah, Wash..ton.24.00 - —
Maleic anhydride, dms., c.l.....lb. .25 - —
l.c.l.....lb. .26 - —
Malva flowers, blacks, bls.....lb. No stocks
Blue, bls.....lb. 1.45 - 1.50
Leaves, bls.....lb. .40 - .41
Manaca root, bls.....lb. .49 - .50
Mandrake root, bls.....lb. .40 - .45
Manganese acetate, dms.....lb. .25½- —
Arsenate, bgs.....lb. .12 - .12½
Borate, tech., bbls.....lb. .16 - .18
Carbonate, bbls.....lb. .19 - —
Chloride, anhyd., dms., works....lb. .18 - .19
Dioxide, African, battery, 84%-87% bbls., 28-40 tons, works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
burlap bgs., c.l., works, ton.71.75 - —
l.c.l., works.....ton.74.75 -79.79
paper bgs., c.l., works, ton.70.00 - —
l.c.l., works.....ton.73.00 - —
85-90%, bbls., c.l., works..ton.74.00 - —
smaller lots, works.....ton.77.00 -82.00
Glycerophosphate, fib. dms.....lb. 4.25 - —
Hydrate, bbls., dlvd.....lb. .26 - —
Iodide jars.....lb. 5.55 - —
Linoleate, liquid, 4% Mn, dms.....lb. .41 - —
solid, precip., 8.2% Mn, bbls....lb. .43 - —
Metal, cs., dlvd. East.....lb. .30 - .32
Naphthenate liquid, 6% Mn, dms..lb. .21 - —
solid, 10% Mn, dms.....lb. .33½- —
Oleate, fused, bbls.....lb. .44¾- —
Resinate, fused, 3½% Mn, bbls....lb. .09 - .10½
precip., dms.....lb. .20 - —
Soyate, 8.2% Mn., dms.....lb. .33½- —
Sulphate, anhyd., dms., works..lb. No stocks
feed grade, 77-80%, bgs.....lb. .04 - .06
fertilizer grade, 65%, bgs., c.l., dlvd. E..ton.56.00 - —
l.c.l., dlvd. E. of Balto. or Cincinnati..ton.63.00 - —
industrial grade, 80%, bgs.....lb. .05 - .05¼
75%, bgs., c.l., dlvd. East....ton.64.50 - —
l.c.l., same basis.....ton.71.50 - —
Tallate, liquid, 4% Mn, dms.....lb. No prices
solid, 8% Mn. dms.....lb. No prices
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock..ton.60.00 - —
Manna, flake, large, cs.....lb. 1.75 - 2.00
small, cs.....lb. .80 - .85
Mannitol, com'l, bbls., works.....lb. .38 - .43
reagent, cs., works.....lb. .85 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
Chilean, bls.....lb. .10½- .11
futures, bls.....lb. .10 - .10½
French, bls.....lb. .38 - .38¼
Matico leaves, bbls.....lb. .17 - .18
Menadione, USP, bots., works..gram. .10 - —
Menthol, natural, USP, Brazilian, cns..lb. 8.80 - 9.00
synthetic, tech., cns.....lb. 6.00 - 6.40
USP, laevo, cns.....lb. 8.90 - 9.95
racemic, cns.....lb. 7.60 - 8.00
Menthyl salicylate, tins.....lb. 3.00 - 3.10
Mercury bichloride (see Corrosive sublimate).
Bisulphate, dms.....lb. 2.13 - 2.16
Chloride (see Calomel).
Cyanide, cryst., powd.....lb. 3.27 - 3.32
Iodide, red, NF, dms....•.....lb. 4.17 - —
Yellow, NF, fib. dms.....lb. 4.27 - —
Metal (see Quiuksilver).
Oxide, red, NF (see Red precipitate).
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms.....lb. 2.44 - 2.46
Mesityl oxide, dms., c.l., dlvd.....lb. .13 - —
l.c.l., dlvd.....lb. .13½- —
tanks, dlvd.....lb. .11½- —
Metachloranilin, dms., works.....lb. .75 - —
Metacresol, 98%, dms., works.....lb. .65 - —
Metanitroparatoluidin, bbls. .....lb. 1.16 - 1.21
Metaphenylenediamine, kgs.....lb. .72 - —
Metatolylenediamine, kgs.....lb. 77 - —

Methanol, natural, all grades, group A, dms., extra, c.l., E. of Miss. gal. .63 - —
l.c.l., same basis.....gal. .73 - —
tanks, same basis.....gal. .60 - —
group B, dms., incl., c.l., frt. alld. gal. .67 - —
l.c.l., same basis.....gal. .78 - —
tanks, same basis.....gal. .60 - —
Prices on natural methanol W. of Miss. 3c. higher
synthetic, dms., c.l., zone 1, frt. alld. gal. .34½- —
2, frt. alld. or dlvd.....gal. .37½- —
3, frt. alld. .....gal. .41½- —
4, frt. alld. .....gal. .41½- —
l.c.l., zone 1, frt. alld. or dlvd.gal. .37 - —
2, frt. alld.....gal. .44 - —
3, dlvd. S. F. and L. A.....gal. .42 - —
4, frt. alld. or dlvd.....gal. 52½- —
tanks, zone 1, frt. alld.....lb. .24 - —
2, frt. alld. .....gal. .27 - —
3, frt. alld. .....gal. .29 - —
4, frt. alld. .....gal. .29 - —

Synthetic methanol zones are: Zone 1—Conn., Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C., Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo., Zone 3—Los Anegeles and San Francisco. Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco), Ida., Mont., Nev., Ore., Utah and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.

Methyl abietate, non-ret. dms., c.l., dlvd..lb. .13¼- —
l.c.l., dlvd.....lb. .13¾- —
hydrogenated, non-ret, dms., c.l., dlvd..lb. .15½- —
l.c.l., dlvd. .....lb. .16 - —

Methyl acetate, CP, 97-99%, dms., c.l., E. of Miss..lb. .10½- .12
W. of Miss. .....lb. .11½- .12
l.c.l., E. of Miss.....lb. .11 - .14
W. of Miss.....lb. .12 - .13½
tanks, E. of Miss.....lb. .09½- —
W. of Miss.....lb. .10½- —
tech., dms., c.l., E. of Miss.....lb. .07 - .09
W. of Miss.....lb. .08 - —
l.c.l., E. of Miss.....lb. .07½- .11
W. of Miss.....lb. .08½- .10½
tanks, E. of Miss.....lb. .06 - —
W. of Miss.....lb. .07 - —
Acetoacetate, dms., c.l., frt. alld. E. lb. .42 - —
l.c.l., same basis.....lb. .42½- —
Methyl acetoacetate prices, frt. alld. W., ½c.
tanks, zone 1, frt. alld.....lb. .24 - —

Acetone, natural, group A, dms., extra, c.l., E. of Miss., frt. alld.gal. .50 - —
l.c.l., same basis.....gal. .57 - —
Natural Methyi acetone group A prices W. of Miss. 3c. per gal higher.
group B, dms., incl., c.l., E. Miss., frt. alld..gal. .67 - —
l.c.l., same basis.....gal. .78 - —
tanks, same basis.....gal. .60 - —
synthetic, dms., c.l., works, frt. alld E..gal. .53¾- —
frt. alld. W.....gal. .56½- —
l.c.l., works, frt. alld. E..gal. .57 - —
frt. alld. W.....gal. .59 - —
tanks, works, frt. alld. E....gal. .44¼- —
frt. alld. W.....gal. .46½- —

Methyl acetone, synth. East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory, all States West of those four.

Alcohol (see Methanol).

Methyl anthranilate, dms. .....lb. 2.20 - 2.30
bots., cns.....lb. 2.20 - 2.60
Benzoate, cns.....lb. .45 - 1.20
Bromide, cns.....lb. .63 - .65
cyls. .....lb. .55 - .70
Chloride, indust., cyl., works...lb. .16 - —
tanks, multi-unit, works.....lb. .14¾- —
single-unit, works.....lb. .14 - —
refrigeration, indust. consumers, refrigeration machinery mfrs., cyls., dlvd..lb. .33 - —
retail refrigeration consumers or service men, cyls., dlvd..lb. .41 - —
Cinnamate, cns.....lb. 1 43 - 3.50
Formate, dms.....lb. .89 - —
Iodide, bots.....lb. 3.00 - 3.23
Lactate, dms., l.c.l., works.....lb. .35 - —
Methacrylate, M-1, dms., works..lb. .45 - —
cns., works.....lb. .48 - .58
P-1, cns., works.....lb. .60 - —
Salicylate, dms., 500 lbs.....lb. .40 - —
25-50 lbs. .....lb. .45 - —
Methylal, crude, dms., c.l., works...lb. .04 - —
l.c.l., works .....lb. .05 - —
tanks, works .....lb. .02 - —
refined, 95%, dms., c.l.....lb. .07 - —
l.c.l., works .....lb. .08 - —
tanks, works .....lb. .04½- —
Methylamyl ketone, cns., dms., works. lb. No stocks
Methylcellulose, special vis. (4,000 cps.), fib. ctns., 2,000 lbs. or more, frt. alld..lb. .70 - —
smaller lots, frt. alld. on 100 lbs. lb. .75 - .80
standard vis. (15-1,500 cps.), fib. ctns., 2,000 lbs. or more..lb. .63 - —
smaller lots, frt. alld. on 100 lbs. lb .68 - .73

Monsanto pharmaceuticals

Benzyl Benzoate, U.S.P.
Saccharin, U.S.P.
Glycerophosphates
Sodium Benzoate, U.S.P.
Sodium Phosphate, Di
Methyl Salicylate, U.S.P.
Ferric Phosphates
Chloral Hydrate, U.S.P.
Caffeine, U.S.P.
Phenol, U.S.P.
Benzoic Acid, U.S.P.
Acetanilid, U.S.P.
Salol (Phenyl Salicylate)
Magnesium Phosphates
Salicylic Acid, U.S.P.
Phenolphthalein, U.S.P.
Chloramine-T
Phosphoric Acid
Calcium Phosphate, Di
Acetyl Salicylic Acid, U.S.P. (Aspirin)
Acetophenetidin, U.S.P.
Potassium Ammonium Phosphate
Sodium Salicylate, U.S.P.
Sulfanilamide, U.S.P.

PHENOLPHTHALEIN, U.S.P., is another important Monsanto pharmaceutical chemical, manufactured to the high standards of product purity maintained by Monsanto for almost half a century.

Phenolphthalein for laxative compounds is furnished by Monsanto in two forms — white powder (U.S.P.) and yellow powder. For further information, samples and technical data, contact any Monsanto District Sales Office, or write to MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, 1700 South Second Street, St. Louis 4, Missouri . . . District Sales Offices: New York, Chicago, Philadelphia, Boston, Cleveland, Cincinnati, Detroit, Charlotte, Birmingham, Houston, Los Angeles, San Francisco, Seattle. In Canada: Monsanto (Canada) Limited, Montreal.

MONSANTO
CHEMICALS — PLASTICS

SERVING INDUSTRY . . . WHICH SERVES MANKIND

Methylcyclohexane—Oil, Castor, Dehydrated

Methylcyclohexane, 98-100%, dms., works..lb. .16 - —
Methylcyclohexanol, 98-100%, dms., works..lb. .23 - —
Methylcyclohexanone, 98-100%, dms., works..lb. No stocks
Methylene blue, tech. (see Dyes, coal-tar).
USP, 100-lb. lots, kgs., frt. equald. lb. 2.20 - —
50-lb. lots, kgs., same basis..lb. 2.30 - —
25-lb. lots, kgs., same basis..lb. 2.35 - —
Chloride, indust., dms., c.l., dlvd. E. lb. .12½- —
l.c.l., dlvd., E.....lb. .13½- —
tanks, dlvd., E.....lb. .11½- —
Methyleneanilin, dms., ton lots, frt. alld..lb. .36 - —
smaller lots, same basis.....lb. .37 - —
Methylethyl ketone, dms., dlvd....lb. .10½- —
l.c.l., dlvd.....lb. .11 - —
tanks, dlvd.....lb. .09 - —
Methylhexyl ketone, tech., dms., works. lb. .60 - —
Methylionone, A, cns.....lb. 6.55 - 8.80
D, cns.....lb. 7.50 - 9.55
prime, cns.....lb. 4.55 - 6.40
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Ketone, dms., c.l., dlvd.....lb. .14 - —
l.c.l., dlvd.....lb. .14½- —
tanks, dlvd.....lb. .12½- —
Methylnaphthyl ketone, cns.....lb. 3.00 - 3.75
Methylpentanediol, dms., works, dlvd. lb. .18 - —
l.c.l., works, dlvd.....lb. .19 - —
tanks, works, dlvd.....lb. .16½- —

Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works..lb. .03⅝- —
roofing, 20 to 80 mesh, works....lb. .03⅜- —
wet-grd., biotite, bgs., c.l., works, frt. alld. E..lb. .05½- —
l.c.l., ex whse. or frt. alld. E. lb. .06¼- —
extra fine, bgs., c.l., works, frt. alld. E..lb. .05½- —
l.c.l., ex whse. or frt. alld. E. lb. .06¼- —
paint or lacq., bgs., c.l., works, frt. alld. E..lb. .07 - —
l.c.l., ex whse. or frt. alld. E.lb. .07¾- —
rubber, bgs., c.l., works, frt. alld. E..lb. .06¾- —
l.c.l., ex whse. or frt. alld. E. lb. .07½- —
wallpaper, bgs., c.l., works, frt. alld. E..lb. .07 - —
l.c.l., ex whse. or frt. alld. E. lb. .07¾- —
white, extra fine, bgs., c.l., works, frt. alld. E..lb. .07 - —
l.c.l., ex whse. or frt. alld. E. lb. .07¾- —
Mica, wet-grd. W. of Miss R., ½c higher. W. of Rockies, 1c. higher.
Milk powder, skimmed, roller, bbls., c.l..lb. .15 - .16¼
spray, bbls., c.l.....lb. .16 - .17½
Whole, roller, bbls., c.l.....lb. .41¼- .41⅜
spray, bbls., c.l.....lb. .44½- .44½
Sugar, edible, bbls., works, 30,000-lb. lots..lb. .24 - —
2,000-lb. lots.....lb. .24½- —
200-1,800-lb. lots.....lb. .25¼- —
USP, bbls., works, 3,000-lb. lots.lb. .26 - —
2,000-lb. lots.....lb. .26¾- —
200-1,800-lb. lots.....lb. .27¼- —

Mineral spirits (see Petroleum, mineral spirits).
Molasses, blackstrap, tank, U. S. port..gal. .30¾- .31¼
Molybdate orange (see Orange, molybdate).
Molybdenum metal, 99% Mo. powd., kgs..lb. 2.60 - 3.00
Trioxide, pure, kgs., works, basis Mo. content..lb. .96 - —
technical, kgs., works, basis Mo. content..lb. .80 - —
Monochlorobenzene, dms., c.l., works, frt. equald..lb. .06 - .07½
l.c.l., works.....lb. .06½- .08½
smaller containers, works.....lb. .09 - .10
tanks, works, frt. equald.....lb. .05½- .06
Monoethanolamine, dms., c.l., frt. alld. E..lb. .25½- —
l.c.l., same basis.....lb. .26½- —
smaller containers, same basis....lb. .29½- —
tanks, same basis.....lb. .24 - —
Monoethylamine, dms., c.l., wks. basis 100%..lb. .17 - —
l.c.l., same basis.....lb. .18 - —
tanks, same basis.....lb. .15 - —
Monomethylamine, anhydrous, cyl., works, basis 100%..lb. .34½- .44½
25%-40%, dms., c.l., same basis..lb. .34 - —
tanks, same basis.....lb. .30 - —
Monomethylpara-aminophenol sulphate, dms..lb. 2.40 - 2.90
Monononylnaphthalene, tanks, wks.lb. .16 - —
Monosodium glutamate (see Sodium glutamate, monobasic).
Phosphate (see Sodium phosphate, monobasic).
Morphine, cns., 25 ozs.....oz. 12.40 - —
Acetate, cns., 25 ozs.....oz. 9.90 - —
Hydrobromide, cns., 25 ozs.....oz. 9.80 - —
Hydrochloride, cns., 25 ozs.....oz. 9.90 - —
Sulphate, cns., 25 ozs.....oz. 9.90 - —

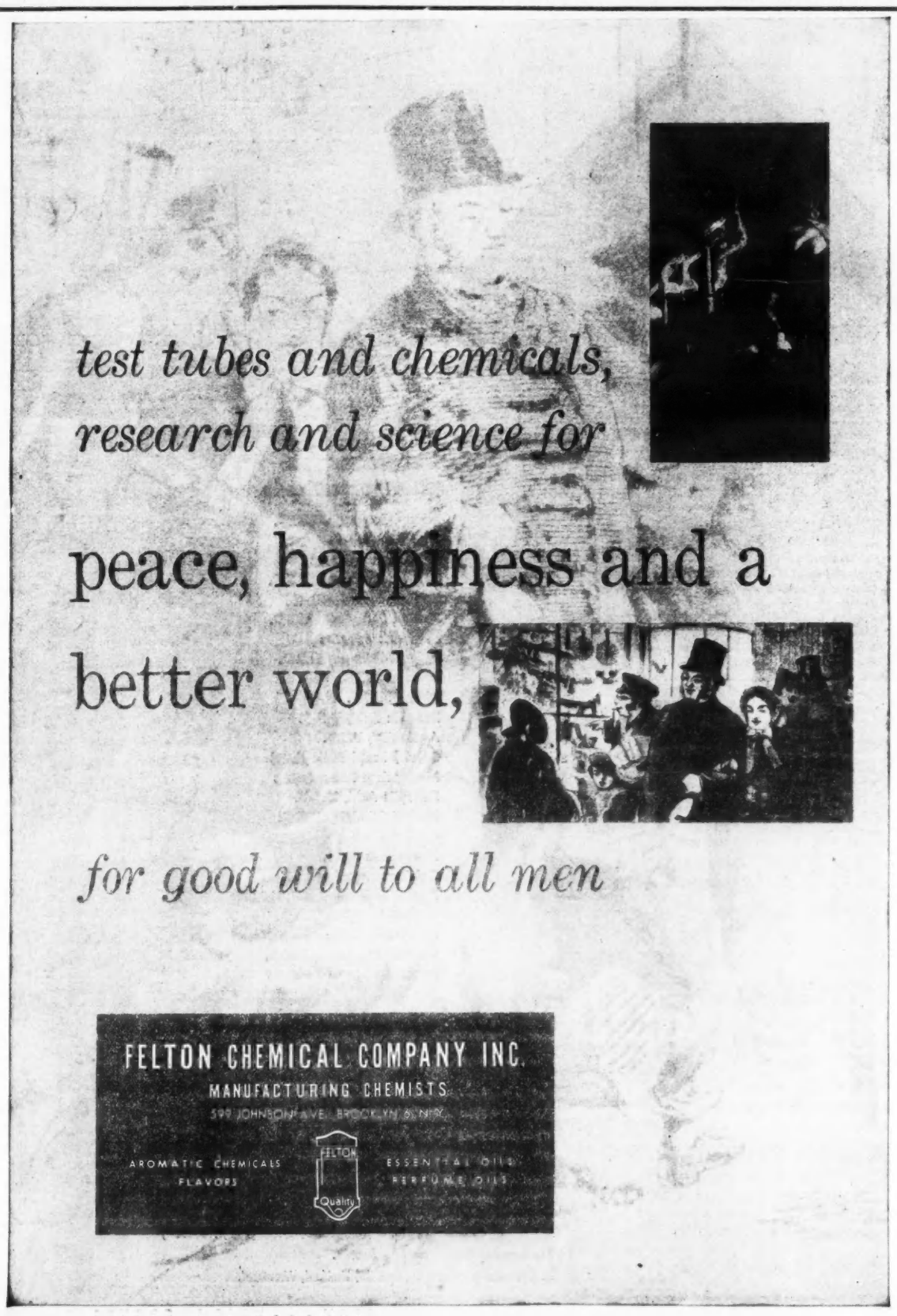
Morpholine, dms., l.c.l., works.....lb. .67 - —
smaller containers, works.....lb. .75 - —
Mountain ash berries, bgs.....lb. .75 - .76
Mullein leaves, bls.....lb. .12 - .13
Musk, nat., Tonquin, grains, bots..oz. 38.00 -55.00
synthetic, ambrette, cns., 5-lb..... 8.00 -14.25
Ketone, cns., 100 lbs. or more..lb. 4.60 - 4.95
25 lbs.....lb. 4.70 - 5.05
5 lbs.....lb. 4.60 - 5.20
Xylol, cns.....lb. 1.60 - 1.80
25 lbs.....lb. 1.70 - 1.90
5 lbs.....lb. 1.80 - 2.00
Muskroot, bls.....lb. No stocks.
Mustard seed, Calif., brown.....lb. .20 - .21
Danish, yellow, bgs.....lb. .18 - .18¼
Dutch, yellow, bgs.....lb. .16½- .17
futures, bgs.....lb. .17½- .18
Montana, brown, bgs., source...lb. .12½- .13
Oriental, bgs.....lb. .07½- .08
new crop futures, source....lb. .07½- .08
yellow, bgs., new crop futures, source..lb. .16 - .16½
Washington, yellow, bgs.....lb. .16 - .16½
Myrobalans, J1, good quality, ex dock. ton. 51.00 -55.00
J2, ex dock.....ton. 15.00 -46.00

N

Naphtha, painters (see Petroleum naphtha, V. M. & P.).
Solvent (see S).
Naphthalene, dom., crude, 74° bgs., bbls., c.l., frt. equald..lb. No prices.
tanks, same basis.....lb. .0125- .0175
78° bgs., c.l., same basis....lb. No prices.
bbls., c.l., same basis.....lb. .0410- .055
l.c.l., same basis.....lb. .0435- .06
tanks, same basis.....lb. .0150- .05
refined, balls, flakes, bbls., wholesalers and jobbers, c.l., works. lb. .11 - —
50-lb. cs., c.l., same basis....lb. .11¼- —
1-lb. pkgs., c.l., same basis..lb .12½- —
Neocinchopen, USP, dms., works..lb. 7.00 - 7.10
Nepheline syenite, glass, 24 mesh, bulk, Rochester, N. Y.....ton. 14.25 - —
pottery, 200 mesh, bulk, Rochester, N. Y..ton. 18.25 - —
Nepheline syenite in bgs., $3 per ton higher than bulk.
Nerolin, crys., cns.....lb. 1.70 - 2.00
Niacin (see Acid, nicotinic).
Nacinamide (see Nicotinamide)
Nickel, carbonate, bbls.....lb. .39 - —
Chloride, bbls.....lb. .20 - —
Cyanide, bots., dms.....lb. 1.75 - 2.00
Metal, electro cathodes, cs.....lb. .35 - —
Oxide, black, bbls.....lb. .35 - .38
Salt, bbls.....lb. .14 - .14½
Nicotinamide, USP, dms., works.kilo. 9.50 - 9.80
Nicotine sulphate, 40%, dms., dealers, frt. alld. over 50 lbs..lb. .988 - —
tins, dealers.....lb. 1.105 - —
Nikethamide, bots, cbys.....lb. 5.50 - 6.00
Nitercake, bulk, works.....ton. 20.00 -24.00
Nitrobenzene, dbl. dist., dms., c.l..lb. .08½- .08¾
l.c.l.....lb. .09½- .10
tanks.....lb. .07½- .07¾
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, 5-6, 15-20, 30-40, and 60-80 secs., bbls., c.l., works, dry weight..lb. .26 - —
l.c.l., same basis.....lb. .27 - .29
18-25 cps., 125-175 secs., bbls., c.l., same basis..lb. .28 - —
l.c.l., same basis.....lb. .29 - .31
250-400 secs. and 600-1,000 secs., bbls., c.l., same basis..lb. .31 - —
l.c.l., same basis.....lb. .32 - .34
spirit-soluble, 30-35 cps., ¼, ½, 5-6 and 40-60 secs., bbls., c.l., same basis..lb. .32 - —
l.c.l., same basis.....lb. .33 - .35
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Barrels extra, but returnable.
Nitrogen solution, tanks, works, N.ton. 107.00 -114.84
Nitrogenous process tankage, bulk, works, ammo. unit ton. 4.00 - 6.50
Sewage sludge, bulk, works, unit ton. 4.15 + 40-
Nitromethane, dms., c.l., works....lb. .25 - —
Nitronaphthalene, bots.....lb. .24 - .25
Nitropropane, 1, dms., works.....lb. .25 - —
2 dms., works.....lb. .25 - —
Nonylnaphthalene blend (mono and di), tanks, works..lb. .14 - —
Nutgalls, bgs.....lb. .44 - .50
Nutmegs, East Indian, bgs., futures, afloat..lb. .60 - .61
West Indian, bgs.....lb. .60 - .61
futures.....lb. .60 - .61
Nux vomica, bls.....lb. .09 - .10
powdered, bbls., bxs.....lb. .12 - .13

O

Oakbark extract, 25% tannin, bbls., c.l., works..lb. No stocks
Octane, 190°-140° C, industrial grade, dms., c.l., group 3..gal. .18 - —
l.c.l.....gal. .21 - .60
tanks, group 3.....gal. .13½- —
Octanol (see Alcohol, ethylhexyl).
Oil, almond, bitter, artificial (see Benzaldehyde).
Bitter, F.P.A., bots.....lb. 4.45 - 5.00
NF, bots.....lb. 4.90 - —
Sweet, dms., cns.....lb. .69 - 1.80
Angelica root, bots.....lb. 120.00 -250.00
Seed, bots.....lb. 110.00 -200.00
Anilin (see A).
Anise, USP, Chinese, dms.....lb. .90 - 1.25
Russian, cns.....lb. 3.25 - 3.75
Apricot kernel, cns.....lb. .65 - .85
Avocado, cns., dms.....lb. 1.00 - 1.10
Babassu, tanks.....lb. .27½ Nom.
Bay, NF, Puerto Rican, 50-55%, cns. lb. 1.20 - 2.25
55-60%, cns.....lb. 1.20 - 2.35
60-65%, cns.....lb. 2.50 - —
West Indian, 50-55%, cns.....lb. 1.20 - 1.65
Bergamot, artif., cns.....lb. 3.50 - 4.25
natural, Italian, cns.....lb. 5.35 - 6.00
Birch (see Oil, sweet birch).
Birchtar, crude, cns.....lb. .95 - 1.76
rectified, cns.....lb. No stocks.
Bois de rose, Brazil, cns.....lb. 2.75 - 5.50
Mexican (see Oil, lignaloe wood).
Bone dms., works.....gal. .65 - .70
Cajeput, tech., dms.....lb. 2.50 - 2.90
redistilled, USP IX, cns.....lb. 2.35 - 3.40
Calamus, cns.....lb. 20.00 -28.00
Camphor, natural, white, cns.....lb. .60 - .75
synthetic, dms.....lb. .15 - .40
Cananga natural, cns.....lb. 6.00 - 9.10
rectified, cns.....lb. 9.35 -12.60
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns.....lb. 5.50 - 6.50
Cardamom, bots.....lb. 23.50 -31.50
Cassia, USP, cns.....lb. 2.40 - 3.75
Castor, blown, ret. dms., c.l.....lb. .30 - .30½
l.c.l.....lb. .31 - .31½
cold-pressed, USP, ret. dms., c.l., lb. .28¼- —
l.c.l.....lb. .29¼- —
tanks.....lb. .27 - .27¼
Dehydrated, bodied, dms., c.l....lb. .30¾- —
l.c.l.....lb. .31½- —
tanks.....lb. .30 - —
unbodied, dms., c.l.....lb. .29¾- —
l.c.l.....lb. .30½- —
tanks.....lb. .29 - —

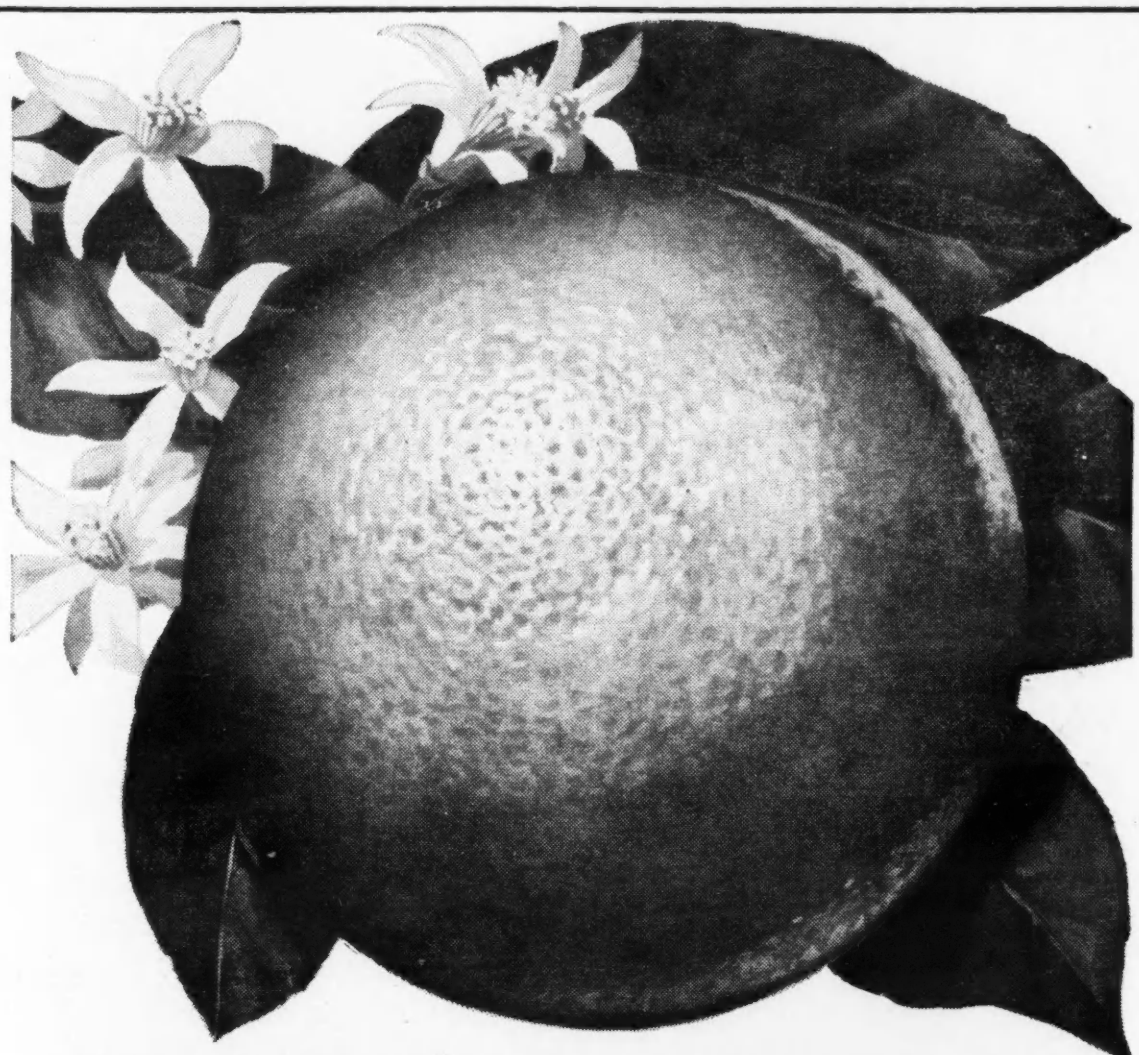


Oil, castor, No. 3, tech., dms., c.l..lb. .27½- —
l.c.l. .....lb. .28¼- —
tanks .....lb. .26½- —
sulphonated, 50% (48% fat), dms. lb. .16½- .17¼
75% (60-62% fat), dms.....lb. .23 - .24
Cedarleaf, USP, cns., dms.....lb. 2.15 - 2.85
Cedarwood, cns.....lb. .65 - .95
dms. .....lb. .61 - .86
Celeryseed, bots. .....lb. 15.00 -20.00
Chaulmoogra, NF, cns., dms.....lb. .56 - —
Chinawood (see Oil, tung).
Cinnamon bark, bots.....lb. 52.50 -62.00
Leaf, Ceylon.....lb. 1.50 - —
Seychelle .....lb. 1.20 - —
Citronella, Ceylon, cns.....lb. .80 - 2.75
Java, cns. .....lb. 1.25 - 4.75
Clove, USP, cns.....lb. 1.30 - 1.70
Coconut, crude, tanks, Atlantic ports..lb. .24 - —
Pac. coast .....lb. .23 - —
refined, Cochin type, tax incl., dms., c.l..lb. .30½ Nom.
deodorized, tax incl., dms., l.c.l. lb. .33 Nom.
Cod, Newfoundland, dms.....lb. .22 - .24
Codliver, USP, dms.....gal. 2.40 - 3.50
Coriander, bots.....lb. 28.00 -35.00
Corn, crude, tanks, works.....lb. .29 - .29½
foots, acid, 95%, tanks, dlvd. E. lb. .11½- —
raw, 50%, tanks, dlvd. E....lb. .05¾- —
refined, tanks, works.....lb. .34 Nom.
Cottonseed, crude, tanks, works...lb. .26½- —
foots, acid 95%, tanks, dlvd. E. lb. .11½- —
raw, 50%, tanks, dlvd. E....lb. .05¼- —
deodorized, winterized, salad, dms., c.l..lb. .34 Nom.
l.c.l. .....lb. .36 - .37
tankcars .....lb. .35 Nom.
Creosote (see C).
Croton, NF, cns.....lb. 4.75 - 5.50
Cubeb, USP, cns.....lb. 6.75 -10.00
Crude (see Petroleum, crude).
Cumin, bots. .....lb. 6.25 -11.50
Cypress, bots. .....lb. 11.00 -15.00
Degras (see D).
Dillseed, bots.....lb. 4.25 - 7.00
Dillseed, bots.....lb. 6.50 - 7.00
Dip (see D).
Erigeron, USP, cns.....lb. 2.30 Nom.
Eucalyptus, rect., USP, 80-90%, cns. lb. 1.05 - 1.4
70-80%, cns. .....lb. .80 - 1.30
Fennel, sweet, cns.....lb. 3.05 - 4.5
Fir, Canada, cns.....lb. 2.25 - 2.7
Fishliver, 8,000-15,000 A units per gram., dms., Pacific Cst., per million units. .16 - —
15,000-30,000 units, dms., Pacific Cst., per million units. .22 - -
30,000-60,000 units dms., Pacific Cst., per million units. .22 - .25
60,000-100,000 units, dms., Pacific Cst., per million units. .27 - -
100,000 to 150,000 units, dms., Pacific Cst., per million units. .27 - .32
150,000 to 200,000 units, per million units. .34 - -
concentrates 500,000 A units, per gram., dms., Pacific Cst., per million units. .35 - .38
1,000,000 A units, per million units. .38 - .41
Fish oil prices include the 1894 conversion factor
Fuel (see Petroleum, fuel oil).
Garlic, pure, bots.....oz. 15.00 - —
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns.....lb. 15.25 -21.00
Bourbon, cns.....lb. 11.50 -14.50
Russian, cns.....lb. No stocks
Turkish (see Oil, palmarosa).
Ginger, dist., bots.....lb. 8.00 -13.00
Grapefruit, Florida, cns.....lb. 2.25 - 2.50
California, bots, cns.....lb. 1.70 - 2.60
Grease, common, No. 1, dms.....lb. .23½- .24
extra winter, strained, dms..lb. .35½- .36
prime, burning, dms.....lb. .36½- .37
Guaiacwood, cns. .....lb. 2.05 - 4.15
Hemlock, cns.....lb. 2.25 - 2.75
Herring, crude, tanks, Pac. coast..lb. No prices
Juniper berry, com., bots.....lb. 6.00 -12.50
Imported, USP .....lb. 7.50 -12.00
Tar, USP (see Juniper tar).
Wood, tech., cns.....lb. .65 - 1.00
Lard (see Oil, grease).
Laurel, bots. .....lb. 20.00 Nom.
Lavandin, cns. .....lb. 1.75 - 3.75
Lavender flower, French, 38-42° ester. lb. 7.00 -10.15
30-32% ester .....lb. 4.25 - 8.00
Russian, 25-lb. .....lb. 11.75 - —
Spike, Spanish, pure, cns.....lb. 1.50 - 2.25
tech., cns. .....lb. 1.75 - 2.75
Lemon, natural, USP, Calif., cns..lb. 3.10 - 3.60
Messina, cns.....lb. 3.50 - 4.05
terpeneless, bots. .....lb. 40.00 -50.00
Lemongrass, cns., dms.....lb. 1.35 - 2.30
Lignaloe seed, Mexican, cns.....lb. 4.50 - 4.80
Wood, Brazilian (see Oil, bois de rose)
Mexican, cns. .....lb. 3.50 - 5.20
Lime, distilled, Mexican, cns.....lb. 3.80 - 5.15
West Indian, cns.....lb. 4.25 - 6.30
expressed, West Indian, cns....lb. 9.50 -11.75
terpeneless, bots .....lb. 35.00 -45.00
Linseed, raw, dms., c.l.....lb. .3400- —
l.c.l. .....lb. .3580- .3580
tankcars .....lb. .3360- —
tankwagon .....lb. .3380- —
Boiled linseed oil .007 higher than raw
Linseed replacement, dms.....lb. .2960- .3060
Lubricating, at refinery, ex tax.
Group 3, bright stock, 150-160 vis., 10-25 p.p. tanks..gal. .285 - —
neutral, 300 vis., No. 3, col., 0.10 pour, tanks..gal. .21 - .22
200 vis., No. 3, col., 15-25 pour, tanks..gal. .18 - .19
145-155 vis., No. 3, color, 10-25 pour, tanks..gal. .285 - —
Penna., W., cylinder, 600-680 flash, tanks..gal. .33 - 38
600-650 steam refd., tanks, gal. .37 - —
neutral, 70° F., No. 3 color, 150 vis., 25 pour, tanks..gal. .37 - 39
200 vis., 25 pour, tanks.gal. .39 - .41
South Texas, neutral, pale 200 vis., 2½-4 pour, tanks..gal. .11 - .12
red, 200 vis., 4-6½ pour, tanks..gal. .11- .12½
Mace, dist., cns., dms.....lb. 5.20 - 8.75
Mandarin, Brazilian, cns.....lb. 5.75 - 8.40
Italian, cns.....lb. 8.50 -10.00
Menhaden, crude, tanks, Balto....lb. .22 Nom.
refined, alkali, dms., l.c.l.....lb. .2730- —
kettle-bodied, dms., l.c.l.....lb. .2960- —
light-pressed, dms., l.c.l.....lb. .2640- —
tanks .....lb. .25 - —
Mineral, white (see Oil, white mineral).
Mirbane (see Nitrobenzene).
Mustard, synthetic, USP, cns.....lb. 1.45 - 1.70
Seed, exp., dms.....lb. .29½ Nom.
Neatsfoot, 1st, dms.....lb. .50 - .50½
20°, dms.....lb. .48 - .48½
30°, dms.....lb. .45 - .45½
Neroli, French, bots.....lb. 195.00 -290.00
Haitian, bots.....lb. 180.00 -290.00
Nutmeg, dist., cns.....lb. 5.00 - 8.75
Ocotea cymbarum, dms.....lb. .75 - 1.15
Officica, liquid, dms., c.l.....lb. .26 - —
l.c.l. .....lb. .26½- —
tanks .....lb. .25 - —
Oleo, extra, tcs., Chicago.....lb. .30 - .32

Oil, olibanum, bots. .....lb. 4.50 - 6.25
extra fine.....lb. 6.25 -10.50
Olive, denat., dms.....gal. No stocks
edible, Calif., dms.....gal. 5.25 Nom.
imported, dms.....gal. 5.50 - 6.10
foots, dms., c.l.....lb. No prices
tankcars .....lb. No prices
sulphonated, 50% (40% fat), dms., c.l..lb. No stocks
l.c.l. .....lb. No stocks
75% (62% fat), dms., c.l.....lb. No stocks
l.c.l. .....lb. No stocks
Orange, sweet, natural, dist., cns. lb. .50 - 1.25
expressed, USP, Brazilian, cns. lb. 1.40 - 1.95
Calif., cns.....lb. 1.70 - 2.10
Florida, cns., dms.....lb. 1.40 - 1.85
Messina, coppers.....lb. 4.50 - 5.50
West Indian, cns.....lb. 2.25 - 3.75
sesquiterpeneless, bots.....lb. 80.00 -135.00
Origanum, Spanish, cs.....lb. 3.20 - 3.50
Palm, Niger, dms.....lb. No prices
Palmarosa, cns.....lb. 6.00 - 9.00
Palmkernel, crude, bulk, c.i.f., N. Y. lb. No prices
Paraffin, pale, 100-110 vis. at 100° F. tanks, works..gal. .10 - —
Patchouli, cns.....lb. 11.50 -45.00
Peanut, crude, tanks, works.....lb. .26½- .27
foots, acid, 95%, tanks, dlvd. E..lb. .11½ Nom.
raw, 50%, tanks, dlvd. E....lb. .05¼ Nom.
refined, tanks, mills.....lb. .33 Nom.
Pennyroyal, USP, dom., dms., cns. lb. 3.80 - 4.75
Import, cns.....lb. 3.80 - 5.00
Peppermint, natural, dms.....lb. 7.80 - 8.75
redist., USP, dms.....lb. 8.35 - 9.25
Perilla, crude, dms.....lb. No stocks
Oil, petitgrain, Paraguay, cns.....lb. 3.25 - 4.90
Pimento berry, dms.....lb. 4.25 - 6.50
leaf, cns.....lb. 1.75 - 3.25
Pine, dest. dist., dms. incl., c.i., works, South..gal. .70 - —
l.c.l., works, East.....gal. .79 - —
tanks, works, South.....gal. .61 - —
steam-dist., dms., ex whse., East.lb. .11 - —
Pineneedle, Canadian, 25-lb. cans..lb. 2.20 - —
Siberian, cns. .....lb. 3.05 - 3.75
Swiss, 25-lb. cans.....lb. 4.00 -14.50
Putty, petroleum, heavy, dms...gal. .18 - —
tankwagon .....gal. .13½- —
light, dms.....gal. .16½- —
tankwagon .....gal. .12½- —
Rapeseed, tankcars.....lb. .32 - —
Red, single dist., dms.....lb. .32¾- .33¾
tanks .....lb. .31½- .32½
double dist., dms.....lb. .35¼- .36¼
tanks .....lb. .34 - .35
Rose, natural, coppers.....oz. 16.00 -40.50
Rosemary, Spanish, tech., cns., dms. lb. .90 - 1.50
USP, cns., dms.....lb. 1.15 - 1.60
Rosin, 1st rectified, dms.....gal. .66 - —
2d rectified, dms.....gal. .68 - —
3d rectified, dms.....gal. .78 - —
Rue, bots.....lb. 4.65 - 5.50
Sage, Dalmatian, cns.....lb. 4.50 - 5.50
Spanish, cns. .....lb. 1.90 - 3.50
Sandalwood, NF, Mysore, cns....lb. 13.75 -22.50
Sardine, crude, tanks, Pac. coast, lb. .23 Nom.
refined, alkali, dms., l.c.l.....lb. .2730- —
kettle-bodied, dms., l.c.l.....lb. .2960- —
light-pressed, dms., l.c.l.....lb. .2640- —
tanks .....lb. .25 - —

Oil, Castor, No. 3, Tech.—Oil, Tansy

Oil, sassafras, artificial .....lb. .80 - 1.25
natural, Brazilian (see Oil, ocotea cymbarum).
domestic, USP XII, cns., dms.lb. 1.90 - 2.30
Savin, cns. .....lb. 5.75 -13.50
Savory, cns.....lb. 8.00 - —
Seal, No. 1, tanks, U. S. ports...lb. No prices
Sesame, tanks.....lb. No prices
Shingle stain, bbls., c.l., works.gal. .2185- —
l.c.l., works .....gal. .25 - .29
tanks, works .....gal. .15 - .16
Snakeroot, Canada, cns.....lb. 17.50 -21.00
Soybean, crude, tanks, mills.....lb. .26 - .26½
foots, acid, 95%, tanks, dlvd. E. lb. .11½ Nom.
raw, 50%, tanks, dlvd. E....lb. .05¾ Nom.
refined, alkali, dms., c.l.....lb. .3167- —
l.c.l. .....lb. .3220- .3260
tanks .....lb. .3067- —
clarified, dms., c.l.....lb. .3017- —
l.c.l. .....lb. .3070- .3110
tanks .....lb. .2917- —
winterized, ref., tankcars, works. lb. .30 - .30¼
Spearmint, dms.....lb. 7.50 -10.00
Sperm, bleached, 38°, dms.....lb. .2670- —
natural, 45°, dms.....lb. .25½- —
Spruce, cns., dms.....lb. 2.25 - 2.75
Sunflower-seed, imp., refined, tanks, lb. No prices
semi-refined, tanks.....lb. No prices
Sweet birch, Northern, cns.....lb. 4.50 - 8.00
Southern, cns. .....lb. 2.50 - 3.25
Tall, crude, tanks, works.....ton. 40.00 -45.00
refined, dms., c.l., works.....lb. .06¾- —
l.c.l., works .....lb. .07¼- —
tanks, works .....lb. .05¾- —
Tallow, acidless, dms.....lb. .33½- .34
Tansy, cns. .....lb. 11.00 -14.00



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U. S. P.

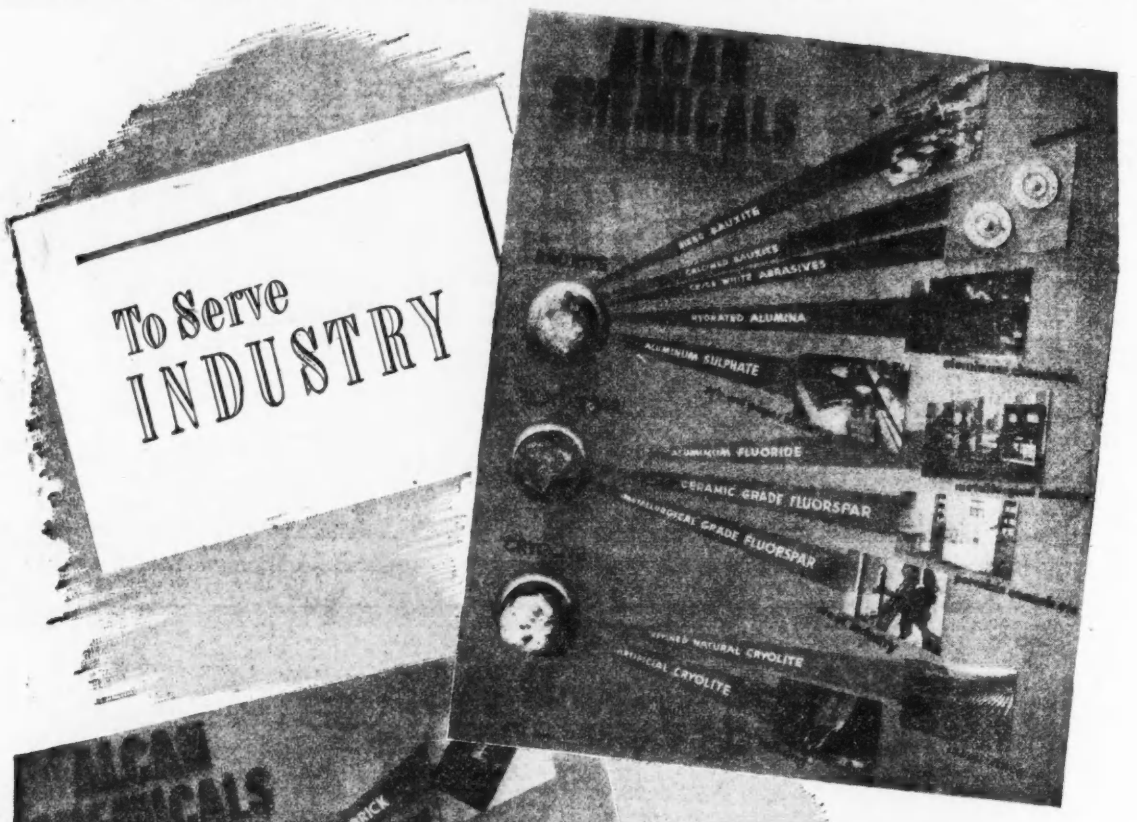
Oil, Tar, Pine—Perchlorethylene

Oil, tar, pine, crude, dms., incl., c.l., works, South..gal. .39 - .41
l.c.l., works, South.....gal. .40½- .43
whse., N.Y.C. .....gal. .50¼- .52½
tanks, works, South.....gal. .30 - .33
rectified, USP, l.c.l., dms., incl., works, South..gal. .60 • —
Tar acid (see T).
Thyme, NF, red, cns.....lb. 2.60 - 3.35
white, cns. .....lb. 2.85 - 3.80
technical, white, cns.....lb. .35 - 1.00
Tung, dms., c.l.....lb. .28½- —
l.c.l. .....lb. .28¾- .29
tanks .....lb. .26¾- .27
Turkey red (see Oil, castor, sulphonated).
Turpentine, rectified, NF cns., dms., lb. .35 - .50
Vetiver, Bourbon, cns.....lb. 30.00 -38.00
Haitian .....lb. 27.00 -33.00
Whale, ref., natural, dms.....lb. No stocks
Winter-bleached, dms.....lb. No stocks
Wheat germ, dms.....gal. 10.00 -13.50
White mineral, tech., 50 vis., non-ret. dms., c.l., San Francisco..gal. .51½- —
l.c.l., S.F.....gal. .53½- .56½
50-60 vis., dms., c.l., N. Y....gal. .44½- —
l.c.l., N.Y.....gal. .48 - .49
65-75 vis., dms., c.l., N.Y.....gal. .45 - .47
l.c.l., N.Y.....gal. .48 - .52
70 vis., non-ret. dms., c.l., S.F. gal. .51½- —
l.c.l., S.F.....gal. .53½- .56½
USP, 80-90 vis., dms., c.l., N.Y.. gal. .51 - —
l.c.l., N.Y.....gal. .55 - .56
Oil, white mineral, USP, 55 vis., non-ret. dms., c.l., S.F..gal. .51½- —
l.c.l., S.F.....gal. .53½- .56½
100 vis., non-ret. dms., c.l., S.F. gal. .59 - —
l.c.l., S.F.....gal. .61 - .64
125-135 vis., dms., c.l., N.Y..gal. .61 - .63
l.c.l., N.Y.....gal. .64 - .66
145 vis., non-ret. dms., c.l., S.F. gal. .68 • —
l.c.l., S.F.....gal. .70 - .76
145-155 vis., dms., c.l., N.Y..gal. .63 - .65
l.c.l., S.F.....gal. .66 - .73
175-185 vis., dms., c.l., N.Y..gal. .66 - —
l.c.l., N.Y.....gal. .68 - .78
180 vis., non-ret. dms., c.l., S.F. gal. .70 - —
l.c.l., S.F.....gal. .72 - .75
200-210 vis., dms., c.l., N.Y..gal. .70 - .72
l.c.l., N.Y.....gal. .73 - .76
340-350 vis., dms., c.l., N.Y..gal. .80 - —
l.c.l., N.Y.....gal. .80 - .86
340 vis., non-ret. dms., c.l., S.F. gal. .83 - —
l.c.l., S.F.....gal. .85 - .88
Wintergreen, natural, Northern cns. lb. 6.35 -17.25
Southern, cns.....lb. 3.65 - 6.50
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, NF, cns.....lb. 4.00 - 5.50
Wormwood, cns.....lb. 9.25 -13.50
Ylang-Ylang, Bourbon, extra, bots..lb. 14.00 -25.00
first, bots.....lb. 12.50 -14.50
second, bots.....lb. 8.00 - 9.50
third, bots.....lb. 6.25 - 7.50
Oleostearin, tres. .....lb. .28½- .29
Olivine, aggregate, c.l., mines....ton. 7.00 - 9.50
crushed, 8 mesh, bulk, c.l., works. ton. 10.00 • —
paper, bgs., c.l., works.....ton. 12.00 • —
lumps, bulk, c.l., works.....ton. 7.00 • —
Opium, USP, cns.....lb. 21.30 -21.55
gran., USP, cns.....lb. 22.70 -22.95
powd., USP, cns.....lb. 22.70 -22.95
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies..lb. 1.00 • —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul, contracts....lb. .26 • —
Chrome orange prices are ¼c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1¼c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex.; 1½c. El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Dinitroanilin toner.....lb. 1.15 • —
Molybdate, bbls.....lb. .59 • —
Orthonitroanilin toner, bbls., kgs., works..lb. .90 - .95
Persian, bbls.....lb. .30 - .45
Orange flowers, bis.....lb. .46 - .48
Orange mineral, American, bbls., 5 tons, ship't point, frt. alld....lb. .20¼- —
smaller lots, bbls., same basis. lb. .21 • —
Orange peel, bitter, Haitian, bis..lb. .13 - .14
Sweet, bis.....lb. .14 - .16
Oregano, Mexican, bgs.....lb. .16 - .16½
Portuguese, bgs., afloat.....lb. .16 • .16½
Spanish, bgs.....lb. .20 - .21
Orris root, Florentine, bls.....lb. .34 - .35
powdered, bbls., bxs.....lb. .36 - .37
Verona, bls.....lb. .22 - .23
powdered, bbls., bxs.....lb. .24 - .25
Orthoaminobiphenyl dms., c.l., works. lb. .24 - —
l.c.l., same basis.....lb. .23½- —
tanks, same basis.....lb. .22 - —
Orthoamylphenol, dms., l.c.l., works. lb. .37 - —
Orthoanisidin, bbls. .....lb. .80 - —
Orthochloroanilin, dms., 10,000 lbs. or more..lb. .60 - —
smaller lots .....lb. .62 - .67
Orthochloroparanitroanilin, dms., works. lb. .57½- —
Orthochlorophenol, dms.....lb. .37 • —
Orthocresol, pure, 30°, dms., c.l., works..lb. .26½- —
l.c.l., works.....lb. .27 - —
tech., 29°-30°, dms., c.l., works..lb. .25 - —
l.c.l., works .....lb. .25½- —
Orthodichlorobenzene, dms., c.l., wks., frt. alld. E. of Rockies..lb. .07½- .08
l.c.l., same basis.....lb. .09½- .10¼
tanks, same basis.....lb. .07 - —
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.
Orthoisopropyl N-phenylcarbamate (see IPC).
Orthonitroanilin, dms. .....lb. .50 - .53
Orthonitrochlorobenzene, dms.....lb. .15 - .18
Orthonitrobiphenyl, tech., dms., c.l., works..lb. .12 - —
l.c.l., works.....lb. .13 - —
Orthonitroparachlorophenol, cns.....lb. .75 - —
Orthonitrophenol, dms.....lb. .66 - —
Orthonitrotoluene, dms.....lb. .08 - .09
Orthophenetidin, dms.....lb. .80 - —
Orthotolidin, distilled, kgs.....lb. 1.00 - —
Orthotoluidin, dms.....lb. .18 - .21
Osage orange crystals, bbls., l.c.l..lb. .33½- —
Extract, liquid, bbls., l.c.l.....lb. .15½- —
Ouabaine, USP, bots.....gram. 3.00 - 4.00
Oxyquinolin sulphate, cns., 100 lbs., works..lb. 6.40 - —
smaller lots, works.....lb. 6.55 - 7.40

P

Papain, powd., cs.....lb. 6.60 - 7.60
Papaverine, natural or synthetic, hydrochloride, N.F., cns., 1,000-oz. lots, oz. 6.60 - —
smaller lots.....oz. 6.30 - 6.50
Sulphate, cns.....oz. 7.10 - 7.35
Paprika, Chilean, bgs.....lb. .32 - .33
Portuguese, bgs.....lb. .40 - .41
Spanish, bgs.....lb. .42 - .44
Para-anisidin, dms., works.....lb. .75 • —
Parachlorophenol, dms., c.l., works..lb. .25 - —
l.c.l., works.....lb. .27½- .29
Parachloroanilin, dms., frt. alld. E. Miss..lb. .70 - —
Paracresol, 98%, dms., works.....lb. .41 - .66
Paracymene, dms., c.l., works.....lb. .1595- —
l.c.l., works.....lb. .1645- —
tanks, works.....lb. .1545- —
Paradibromobenzene, bgs., 500-lb. lots, works..lb. .45 • —
Paradichlorobenzene, dms., c.l., works. lb. .12½- —
l.c.l., same basis.....lb. .14 - —
Paraffin, crude, scale, white or yellow, 124-126 ASTM, bbls., c.l., refinery..lb. .065 - .09
fully ref'd, slabs, 117-119 ASTM, loose, c.l., refy..lb. .05 - —
123-125 ASTM, loose, c.l., refy..lb. .0685- —
125-127 ASTM, loose, c.l., refy..lb. .0715- —
128-130 ASTM, loose, c.l., refy..lb. .0740- —
130-132 ASTM, loose, c.l., refy..lb. .0770- —
133-135 ASTM, loose, c.l., refy..lb. .0795- —
135-137 ASTM, loose, c.l., refy..lb. .0860- —
Prices in bags ¾c. lb. higher; l.c.l. prices 1½c. lb. higher.
Paraformaldehyde, dms., 1,000 lbs., works..lb. .21 • —
smaller lots, works.....lb. .22 • —
Paraldehyde, tech., 98%, 55 gals., dms., l.c.l., works..lb. .12½- .13¼
5-10-gal. dms., l.c.l., works...lb. .16½- —
tanks, works.....lb. .11 - —
USP, cbys.....lb. .37 - .40
Paranitroanilin, kgs., works.....lb. .41 • .43
Paranitrochlorobenzene, kgs., works.lb. .15 • —
Paranitrophenol, kgs., works, frt. equald..lb. .35 • —
Paranitrotoluene, kgs., works.....lb. .30 • —
Paraphenylphenol, bgs., works.....lb. .25 - .26
Paraphenylenediamine, tech., kgs., works..lb. 1.25 • —
Para-tertiary-butylphenol, bgs., works. lb. .19 • .20
Paratoluenesulphonamide, bbls., works. lb. .70 • —
Paratoluidin, bbls., works.....lb. .46½- .53
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. E. lb. .31 • —
l.c.l., same basis.....lb. .32 • .33
Passion flower herb, bls.....lb. .35 • .40
Patchouli leaves, bls.....lb. .38 • .40
Pectin, citrous, bbls.....lb. 1.25 • —
Penicillin, amorph, calcium, bulk, 1,000,000,000 units. 100,000 units. .14 • —
sodium, bots.....100,000 units. .25 • —
bulk, 1,000,000,000 units. 100,000 units. .16 • —
cryst., sodium, bots..100,000 units. .32 • .58
Pennyroyal leaves, bls.....lb. .25 - .30
Pentachlorophenol, dms., works....lb. .20 • .25
Pentaerythritol, tech., bbls., c.l., works..lb. .32 • —
l.c.l., works.....lb. .34 • .36
Pentane, 28°-38° C., industrial, dms., c.l., group 3..gal. .14 - .17
l.c.l., dms., group 3.....gal. .16 - .19
tanks, group 3.....gal. .08 - .10
Pepper, black, bgs.....lb. .49 - .50
futures, bgs., nearby.....lb. .45 - .46
distant .....lb. .41 - .42
Red, capsicum, Louisiana longs, bgs., shipment point..lb. .18 Nom.
Mississippi sports, bgs., source, lb. .23 - .24
Mombasa, bgs. .....lb. .40 - .41
Niger, bgs. .....lb. .18 - .18¼
birdseye, bgs. .....lb. .34 - .35
Sierra Leone, futures.....lb. .23 - .23¼
Chillies, Haitian, bgs.....lb. No stocks
Mexican, long.....lb. No stocks
White, bgs. .....lb. .58 - .59
Peppermint, USP, dom., bls.....lb. .75 • .80
imported, bls.....lb. .80 • .85
Perchloroethylene, dms., c.l., zone 1, works, frt. alld..lb. .10¾- —
zone 2, same basis.....lb. .11¼- —
zone 3, same basis.....lb. .11¾- —
zone 4, same basis.....lb. .11¼- —
l.c.l., zone 1, same basis.....lb. .11½- —
zone 2, same basis.....lb. .12 - —
zone 3, same basis.....lb. .12½- —
zone 4, same basis.....lb. .12 - —
tanks, zone 1, same basis.....lb. .10¼- —
zone 2, same basis.....lb. .10¾- —
zone 3, same basis.....lb. .11¼- —
zone 4, same basis.....lb. .10¾- —

Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.



THE HEAVY chemicals illustrated here are now available to industry, promptly and in quantity. As a pioneer Canadian producer, Aluminum Company of Canada, Ltd. provides ample production capacity at its Arvida and Wakefield plants. Your enquiries on chemicals of all types will receive immediate attention. Write our nearest sales office.

CHEMICALS DIVISION
ALUMINUM COMPANY OF CANADA, LTD.
Producers and Processors of Aluminum for Canadian Industry and World Markets
MONTREAL, QUE.

Peru balsam, dms.	lb.	.85 - .90
Petrolatum, tech., dark, bbls., c.l., group 3	lb.	.021 - —
Pennsylvania refy.	lb.	.045 - —
golden topaz, bbls., c.l.	lb.	.032 - —
l.c.l.	lb.	.036 - —
red, veterinary, bbls., c.l.	lb.	.024 - —
l.c.l.	lb.	.028 - —
USP, amber, non-ret. dms., c.l.	lb.	.04½- —
Pennsylvania refy.	lb.	.04⅞- —
l.c.l.	lb.	.05¼- —
cream, c.l., dms.	lb.	.06 - —
l.c.l.	lb.	.07½- —
extra amber, dms., c.l.	lb.	.04½- —
l.c.l.	lb.	.05½- —
white, lily, dms., c.l.	lb.	.06¼- —
l.c.l.	lb.	.07¾- —
snow, dms., c.l.	lb.	.07½- —
Pennsylvania refy.	lb.	.08½- —
l.c.l.	lb.	.09¾- —
California, refy.	lb.	.11¾- —
soft, dms., c.l.	lb.	.06 - —
Pennsylvania refy.	lb.	.07½- —
l.c.l.	lb.	.07 - —
California refy.	lb.	.1075- —
yellow, soft, dms., c.l.	lb.	.04¾- —
Pennsylvania refy.	lb.	.04⅞- —
l.c.l.	lb.	.05¾- —
California refy.	lb.	.09 - —
Petroleum, crude, bulk, at wells, California	bbl.	1.28 - 2.88
Illinois	bbl.	2.15 - 2.77
Kentucky	bbl.	2.10 - 2.27
Louisiana-Arkansas	bbl.	1.64 - 2.38
Montana	bbl.	2.00 - 2.65
Oklahoma-Kansas	bbl.	1.73 - 2.15
Pennsylvania, lower field	bbl.	5.00 - —
Upper field	bbl.	2.60 - 5.00
Texas, East	bbl.	2.15 - 2.65
Gulf coast	bbl.	1.88 - 2.88
North, North-Central	bbl.	1.73 - 2.15
Panhandle	bbl.	1.73 - 2.13
West	bbl.	1.60 - 2.02
Wyoming	bbl.	1.40 - 2.05
Ether, laboratory, 30°-60° C, cns., dlvd. E.	gal.	1.50 - —
dms., c.l., group 3	gal.	.26 - —
l.c.l., same basis	gal.	.44 - —
35°-60° C, 10-gal. cns., dlvd. E.	gal.	1.50 - —
dms., c.l., Group 3	gal.	.26 - —
l.c.l., same basis	gal.	.44 - —
40°-75° C, 10-gal. cns., dlvd. E.	gal.	1.50 - —
dms., c.l., Group 3	gal.	.26 - —
l.c.l., same basis	gal.	.44 - —
Fuel oil, tanker C (No. 6), California, heavy, tanks, refinery	bbl.	1.75 - 1.90
light, tanks, refinery	bbl.	1.95 - 2.10
Eastern, tanks, Albany, N. Y.	bbl.	2.869 - —
Baltimore, Md.	bbl.	2.54 - 2.57
Boston, Mass.	bbl.	2.565 - 2.715
Charleston, S. C.	bbl.	2.47 - 2.53
Jacksonville, Fla.	bbl.	2.50 - 2.53
New York, N. Y.	bbl.	2.54 - 2.87
Norfolk, Va.	bbl.	2.51 - 2.54
Philadelphia, Pa.	bbl.	2.54 - 2.67
Portland, Me.	bbl.	2.265 - 2.715
Providence, R. I.	bbl.	2.555 - 2.685
Savannah, Ga.	bbl.	2.50 - 2.53
Oklahoma, tanks, refinery	bbl.	2.00 - 2.50
Diesel, tanks, refinery, California	gal.	.065 - .0815
Pennsylvania	gal.	.0950- .1050
Furnace, tanks, refinery, Arkansas, No. 2	gal.	.07625- —
No. 3	gal.	.07375- —
Bayonne, N. J., No. 2	gal.	.072 - —
Group 3, No. 1	gal.	.07375- .07875
No. 1, straw	gal.	.07875- .09
No. 2, straw	gal.	.0725- .0825
No. 3	gal.	.07375- .075
range	gal.	.0775- .08
Pennsylvania, No. 1	gal.	.0975- .103
No. 2	gal.	.095 - .105
No. 3	gal.	.095 - .105
Lacquer diluent, California, 100 i.b.p., 200 e.p., tanks, dlvd., Los Angeles	gal.	.118 - —
Portland, Ore.	gal.	.128 - —
San Francisco	gal.	.11½- —
Seattle, Wash.	gal.	.128 - —
East coast, tanks, N. J. and N. Y. refinery	gal.	.14 - —
Group 3, benzol-type, tanks, refinery	gal.	.1075- .11125
toluol-type, tanks, refinery	gal.	.10375- .10825
Mineral spirits, California, tanks, San Francisco, 170-250 b.r.	gal.	.123 - —
205-280 b.r.	gal.	.123 - —
244-362 b.r.	gal.	.123 - —
307-360 b.r.	gal.	.113 - —
312-402 b.r.	gal.	.113 - —
362-458 b.r.	gal.	.113 - —
East coast, tanks, N. J., N. Y., refinery	gal.	.12½- —
Group 3, tanks, refinery	gal.	.08500- .09375
Gulf coast, tanks, refinery	gal.	.0875- —
tankwagon, Baltimore	gal.	.16 - —
Boston	gal.	.145 - —
Buffalo	gal.	.15 - —
Camden, N. J.	gal.	.135 - —
Chicago	gal.	.169 - —
Detroit	gal.	.192 - —
Kansas City, Mo.	gal.	.165 - —
Lancaster, Pa.	gal.	.145 - —
Newark	gal.	.135 - —
New York	gal.	.135 - —
Philadelphia	gal.	.135 - —
Pittsburgh	gal.	.15 - —
Providence	gal.	.15 - —
Rochester	gal.	.16 - —
St. Louis	gal.	.171 - —
Syracuse	gal.	.17 - —
Washington, D. C.	gal.	.16 - —
Naphtha, cleaners, California, tanks, San Francisco	gal.	.123 - —
East coast, tanks, N. J., N. Y., refinery	gal.	.12½- —
Group 3, tanks	gal.	.09875- .10375
tankwagons, St. Louis	gal.	.1470- —
tankwagon, Newark	gal.	.12½- —
Chicago	gal.	.14¼- —
Detroit	gal.	.15½- —
New York	gal.	.12 - .18
Philadelphia	gal.	.125 - —
High-flash, 140° F, group 3 refinery, tanks	gal.	.11½- .13⅛
High-solvency, tanks, refinery, N. J., 200-285 b.r., 37-38° C. mixed anilin pt.	gal.	.18 - .18⅛
26°C m.a.p.	gal.	.20 - —
270-370 b.r., 78-81 m.a.p.	gal.	.21 - —
19°C m.a.p.	gal.	.23 - —
305-400 b.r., 26-30°C m.a.p.	gal.	.21¼- .21⅝
340-440 b.r., 32°C m.a.p.	gal.	.21½- —
26°C m.a.p.	gal.	.25½- —
Petroleum naphtha, V.M.&P., at refinery, California, 46.5, 254-380 b.r., tanks, El Segundo	gal.	.12 - —
Richmond	gal.	.12½- —
Portland, Ore., Seattle, Wash.	gal.	.12 - —
64-77, 190-310 b.r., tanks, Los Angeles	gal.	.11 - —
San Francisco	gal.	.11½- —
Portland, Seattle	gal.	.12 - —
East coast, N. J., N. Y., tanks	gal.	.13½- —
Group 3, tanks	gal.	.09875- .10375
Gulf coast, tanks, New Orleans	gal.	.10 - —
tankwagon, Boston	gal.	.155 - .16
Chicago	gal.	.172 - —
Detroit	gal.	.184 - —
Milwaukee	gal.	.188 - —
Minneapolis	gal.	.177 - —
Newark	gal.	.16 - —
New York	gal.	.145 - —
Philadelphia	gal.	.15 - —
Pittsburgh	gal.	.16 - —
St. Louis	gal.	.181 - —
Solvent, rubber, at refinery California, tanks, San Francisco	gal.	.115 - —
East coast, N. J., N. Y., gal.	gal.	.13½- —
Group 3, tanks	gal.	.09875- .10375
Stoddard (C.S. 8-36), at refinery, California tanks, San Francisco	gal.	.12 - —
East coast, N. J., N. Y., tanks	gal.	.12½- —
Group 3, tanks	gal.	.09375- .10125
Pennsylvania, western, tanks, gal.	gal.	.10 - —
tankwagon, Boston	gal.	.14 - —
Chicago	gal.	.15½- —
Detroit	gal.	.17½- —
Petroleum, solvent, Stoddard, tankwagon, Milwaukee	gal.	.16½- —
Minneapolis	gal.	.164 - —
Newark	gal.	.13½- —
New York	gal.	.13½- —
Philadelphia	gal.	.13½- —
Pittsburgh	gal.	.15 - —
St. Louis	gal.	.17 - —
Syracuse	gal.	.17 - —
Sulphonate, 70% sulphonic content, ret. dms., c.l., works	lb.	.134 - —
l.c.l., works	lb.	.141 - —
content, ret. dms., tanks, works	lb.	.124 - —
50% sulphonic content, ret. dms., c.l., works	lb.	.1065- .1075
l.c.l., works	lb.	.1100- .1165
tanks, works	lb.	.0965- .0975
Phenobarbital, dms., 100 lbs.	lb.	3.50 - 4.50
Phenol, 99-92% (cresol, 8-10%), dms., c.l., works, frt. equald.	lb.	.12 - .12¾
l.c.l., same basis	lb.	.12¾- .13¼
tanks, same basis	lb.	.11 - .11¼
82-84% (cresol, 16-18%), dms., c.l., same basis	lb.	.12½- .13
l.c.l., same basis	lb.	.13¼- .13½
tanks, same basis	lb.	.11½- .12
USP, dms., c.l., same basis	lb.	.11½- .12⅝
l.c.l., same basis	lb.	.12¼- .13
tanks, same basis	lb.	.10¾- .11⅛
Phenolphthalein, USP, bbls., dms., 2,000 lbs.	lb.	.85 - —
smaller lots	lb.	.87 - .92
yellow, fib. dms., 2,000 lbs.	lb.	.85 - —
smaller lots	lb.	.87 - .92
Phenothiazin, NF, fib. dms., ton lots, works	lb.	.49 - —
smaller lots, works	lb.	.54 - —
Phenylacetaldehyde solution, 50%, bots.	lb.	2.35 - 2.75
pure, bots.	lb.	4.00 - 4.50

Peru Balsam—Phosphate Rock, Florida

Phenyl acetate, dms., 100-lb. lots, works	lb.	.50 - —
Phenyldiethanolamine, dms., works	lb.	.33 - .34
Phenylethyl acetate, dms.	lb.	2.15 - 2.70
Phenylethylphenyl acetate, bots.	lb.	4.50 - 6.00
Phenylhydrazin base, CP, bots.	lb.	4.55 - —
Hydrochloride, CP, bots., works	lb.	7.10 - —
commercial, kgs., works	lb.	1.75 - —
Phloroglucinol, CP, fib. dms.	lb.	13.75 - —
tech., fib. dms.	lb.	10.00 - —
Phosgene, 150-lb. cyls., works	lb.	.29½- .35
10-lb. cyls., works	lb.	1.00 - —
Phosphate, defluorinated (see under D.).		
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 68-66%, b.p.l., bulk, c.l., car at mine	long ton.	3.34 - 3.49
70%-68%, b.p.l., c.l., same basis	long ton.	3.74 - 3.89
72%-70%, b.p.l., c.l., same basis	long ton.	4.34 - 4.42
75%-74%, b.p.l., same basis,	long ton.	5.34 - 5.49
77%-76%, b.p.l., c.l., same basis	long ton.	6.34 - 6.49

Prices for Florida phosphate rock are plus usual bonus penalty clause on oil and labor. Prices on entirely pebble, 50c. per long ton higher than above quotations.

finely ground 65.5% b.p.l., basis 30% P_2O_5 minimum	short ton.	5.00 - —
68%, b.p.l., basis 31% P_2O_5 minimum	short ton.	5.20 - —
70%, b.p.l., basis 32% P_2O_5 minimum	short ton.	5.55 - —

FROM SHELL CHEMICAL

Diisopropylamine

AN ALKYL AMINE FOR INDUSTRIAL DEVELOPMENT
NOW AVAILABLE IN SEMI-COMMERCIAL QUANTITIES

Diisopropylamine exhibits reaction characteristics typical of the lower secondary alkyl amines. Its availability in semi-commercial quantities should be of particular interest to manufacturers of:

PHARMACEUTICALS — INHIBITORS
SURFACE ACTIVE AGENTS — ADHESIVES
INSECTICIDES AND FUNGICIDES
PLASTICIZERS — RUBBER CHEMICALS

A data sheet and sample will be forwarded to you on letterhead request. Write your nearest Shell Chemical office.

PHYSICAL PROPERTIES

Formula	$(CH_3)_2CH\text{-}NH\text{-}CH(CH_3)_2$
Molecular Weight	101.19
Boiling Point, °C	83.86
Specific Gravity at 20°/4°	0.7158
Refractive Index, n_D^{20}	1.3920
Flash Point, °F, Tag Open Cup	<60
Solubility in Water, 20°C	Complete

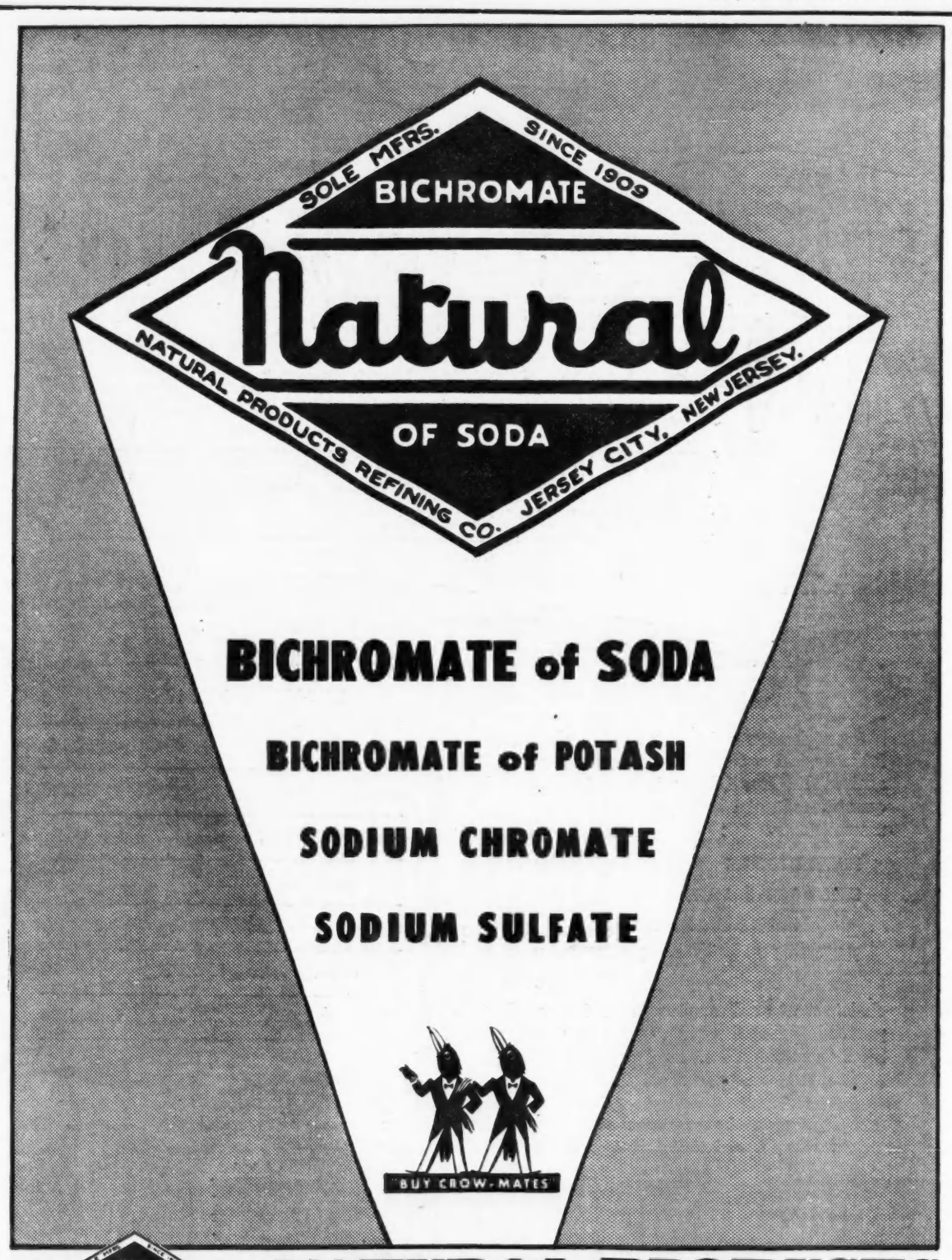
Among the many other Shell Chemical products are:
Tertiary Butyl Alcohol, Methyl Isobutyl Ketone and Acetone

SHELL CHEMICAL CORPORATION

100 Bush Street, San Francisco 6 • 500 Fifth Avenue, New York 18
Los Angeles • Houston • St. Louis • Chicago • Cleveland • Boston • Detroit

Phosphate Rock, Tennessee—Pyrophyllite, Standard

Phosphate rock, Tennessee, brown, run-of-mine, unground, 70-68% b.p.l., 5½% l. & a., same basis, long ton. 5.50 - —
72%-70%, b.p.l., 5½% l. & a., same basis..long ton. 6.00 - —
29% P_2O_5, same basis..... long ton. 5.15 - —
30% P_2O_5, same basis..... long ton. 5.35 - —
31% P_2O_5, same basis..... short ton. 5.45 - —
32% P_2O_5, same basis..... short ton. 5.70 - —
33% P_2O_5, same basis..... short ton. 6.20 - —
Phosphorus, red, amorphous, cs....lb. .33 - .35
tins, export .....lb. .40 - .45
Yellow, cns. .....lb. .25 - .27
dms., c.l. .....lb. .22 - —
Oxychloride, dms, works.....lb. .10¾-- .13¾
Pentoxide, dms., c.l., works.....lb. .12 - —
l.c.l., works .....lb. .13 - .14
Sesquisulphide, tins, cs., works...lb. .26 - .27
Trichloride, dms., c.l., works.....lb. .10¾- —
l.c.l., works.....lb. .12¾- .13¾
Phthalamide, bbls., works.....lb. .35 - .40
kgs., works .....lb. .45 - .50
Phthalic anhydride, bgs., bb's, c.l., works, frt. equald. lb. .17½- —
Pacific Cst., divd. ..... lb. .19¼- —
l.c.l., same basis.....lb. .18½- —
Pacific Cst., divd.....lb. .21¼- —
Pichi leaves, bgs.....lb. .07 - .08
Picoline (see Alphapicoline and Betapicoline).
Picrotoxin, bots. .....oz. 8.00 - —
Pilocarpine hydrochloride, USP, bots., vials...oz. 6.50 - 7.50
Nitrate, bots., vials.....oz. 6.25 - 7.25
Pimento, Jamaica, bgs.....lb. .24½- .25
Pinetar, retort, dms. incl., c.l., works, South..gal. .39 - .41
l.c.l., same basis.....gal. .40½- .43
whse., N.Y.C. .....gal. .50¼- .52½
tanks, works, South.....gal. .30 - .32
Pinkroot, bls.....lb. 2.25 - 2.30
Piperidine, 95%, dms., frt. equald..lb. 1.50 - —
98%, same basis.....lb. 1.60 - —
Piperazine hexahydrate, bots.....lb.11.50 -12.50
Pipsissewa herb (see Prince's pine).
Pitch, coaltar, 150° m.p., bbls., c.l., works..ton.25.25 - —
l.c.l., works .....ton.28.25 - —
Cottonseed, dms., works.....lb. .10½- .10¾
Hardwood, paper bgs., works....lb. .01 - —
Linseed, dms. .....lb. No prices.
Petroleum (see Asphaltum, Mexican, Texas).
Pine, dms., ex whse. East...100 lbs. 6.90 - —
Soybean, dms., works.....lb. .10¼- .10½
Plaster of paris (see Gypsum).
Platinum metal, works.....oz.66.00 -69.00
Podophyllin, dms. .....lb.13.50 -13.75
Pokeroot, bls. .....lb. .21 - .22
Polystyrene, plain colors, bgs., 30,000 lbs., works, frt. alld..lb. .31½- —
20,000 lbs., same basis.....lb. .32½- —
smaller lots, same basis.....lb. .32½- .56
Water-clear, polystyrene, 7c.-18c. per lb. less than plain colors, depending on quantity; plain colors, dms., ½c. higher.
Pomegrante root bark, bgs.....lb. .76 - .76
Poppy flowers, bls.....lb. .66 - .70
Seed, Argentine, bgs.....lb. .21½- .22
Danish, bgs. .....lb. .22 - .22½
Dutch, bgs. .....lb. .24 - .24½
Turkish, bgs. .....lb. .19½- .20
Potash, caustic, low-chloride, flake, 90%, dms., c.l., works..100 lbs. 9.60 - —
l.c.l., works.....100 lbs.10.35 - —
liquid, dms., c.l., works..100 lbs. 9.00 - —
l.c.l., works.....100 lbs. 9.75 - —
tanks, works.....100 lbs. 8.25 - —
solid, 90%, dms., c.l., works.., 100 lbs. 9.60 - —
l.c.l., works.....100 lbs. 9.75 - —
regular, flake, 88-92%, dms., c.l., works..lb. .0785- —
l.c.l., works.....lb. .0860- —
liquid, 45% basis, dms., c.l., works..lb. .03575- —
l.c.l., same basis.....lb. .0395- —
tanks, same basis.....lb. .03½- —
solid, 88-92%, dms., c.l., works.lb. .07½- —
l.c.l. .....lb. .08 - —
Potassium abietate.....lb. .08 - —
Acetate, USP, dms.....lb. .28 - .30
Bicarbonate, USP, gran., dms....lb. .20 - .22
powd., dms.....lb. .22 - .24
Bichromate, bgs., c.l., works....lb. .11½- —
l.c.l., works.....lb. .11¾- .11¾
Potash bichromate in bbls., ¼c. higher.
Borate, gran., bbls., c.l., works..ton.200.00 - —
ton lots, works.....ton.218.50 - —
less ton lots, works.....ton.223.50 - —
Bromide, USP, cryst., gran., bbls., kgs..lb. .33 - .34
Carbonate, tech., calcined, bbls., c.l., works..lb. .07½- —
l.c.l., same basis.....lb. .08 - —
Potassium carbonate, hydrated, 83-85%, bbls., c.l., wks..lb. .06 - —
dms., l.c.l., works.....lb. .06½- —
USP, gran., bbls., dms.....lb. .14 - .19
powd., bbls., dms.....lb. .20 - .25
Chromate, tech., bgs.....lb. .25 - .29
Chlorate, cryst., kgs., c.l., works, lb. .08½- —
l.c.l., works.....lb. .09¾- —
powd., dms., kgs., c.l., works..lb. .09 - —
l.c.l., works.....lb. .09¾- —
export, kgs., 1 to 10 tons, ex whse..lb. .12 - —
Chloride, USP, cryst., bbls.....lb. .21 - .22
gran., bbls.....lb. .19 - .20
powd., bbls.....lb. .22 - .23
Citrate, USP, gran., bbls., dms..lb. .35½- .40½
Potash citrate, USP, powd., 3c. per lb. higher.
Cyanide, dms., works.....lb. .55 - —
Fluoride, dms., works.....lb. .24 - —
Glycerophosphate, 75% solution, cbys. lb. 2.20 - —
Guaiacolsulphonate, NF, dms....lb. 1.80 - 1.85
Hydroxide, tech. (see Potash, caustic).
USP, sticks, dms.....lb. .34 - .36
Hypophosphite, cns.....lb. .72 - .75
Iodide, dms.....lb. 1.95 - 1.98
Manure salt, 22% K_2O, bulk, mines.. unit-ton. .20 - —
25% K_2O, bulk, mines..unit-ton. .21 - —
Metabisulphite, gran., bbls.....lb. .19 - .21
powd., bbls.....lb. .25 - —
Muriate, dom., 60% K_2O, bulk, Carlsbad, N. M..unit ton. .37½- —
Trona, Cal.....unit ton. .45½- —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., dms...lb. .28 - .34
Perchlorate, kgs., works.....lb. .12½- .14
Permanganate, tech., dms., works..lb. .20½- .21¼
USP, dms., works.....lb. .22½- .23
Persulphate, dms., c.l., works....lb. .17 - —
l.c.l., works.....lb. .21 - —
Phosphate, tetrabasic, bbls., works.lb. .13 - .13½
Prussiate, red, kgs.....lb. .55 - .58
Yellow, bbls.....lb. .19 - —
Ricinoleate, tech., bbls.....lb. .18 - —
Silicate, glass, bgs., c.l., works..ton.200.00 - —
l.c.l. .....100 lbs.15.25 - —
solution, 29° Be, ret. drums, c.l., works..100 lbs. 4.25 - —
l.c.l., 5 or more, works..100 lbs. 5.00 - —
1-4, works.....100 lbs. 5.50 - —
32° Be, ret. dms., c.l., works, 100 lbs. 4.75 - —
l.c.l., 5 or more, works, 100 lbs. 5.50 - —
1-4, works.....100 lbs. 6.00 - —
40.5° Be, ret. dms., c.l., works, 100 lbs. 5.75 - —
l.c.l., 5 or more, works, 100 lbs. 6.50 - —
1-4, works.....100 lbs. 7.00 - —
Silicofluoride, bbls., works.....lb. .09 - —
Sulphate, NF, cryst., bbls.....lb. .30½- .35½
powd., bbls. .....lb. .14½- .17
tech., dom., bulk, basis 90-95% K_2O_4 min. 90°c, ex vessel
Atlantic or Gulf ports...ton.36.25 - —
West coast ports.....ton.39.25 - —
Sulphocyanide, cryst., N.F., dms..lb. .62 - .70
Thiocyanate (see sulphocyanide).
Titanate, cns., c.l., works.....lb. .12 - —
5 tons, works.....lb. .12¼- —
2,000 lbs. or less, works.....lb. .12½- .13
Xanthate, dms., c.l.....lb. .12 - —
Potassium-magnesium sulphate, bulk, min., 40% K_2SO_4, 18-50% MgO, ex vessel, ports..ton.26.00 - —
Potassium-sodium ferricyanide, kgs., works..lb. .45 - .48
Potassium-sodium tartrate (see Rochelle salt).
Potassium-titanium oxalate, bbls., dms..lb. .56 - .65
Prickly ash bark, bls.....lb. .33 - .34
Berries, bgs.....lb. .20 Nom.
Prince's pine herb, bls.....lb. .55 - .60
Procaine hydrochloride, cns., 200-lb. lots..lb. 4.50 - —
smaller lots .....lb 4.75 - 5.50
Propane, commercial grade, tanks, group 3...gal. .05½- .06½
Propionaldehyde, dms., c.l., works..lb. .16½- —
l.c.l., works .....lb. .17 - —
tanks, works .....lb. .15 - —
Propyl aldehyde (see Propionaldehyde).
Propylene dichloride, dms., c.l.....lb. .06½- —
l.c.l. .....lb. .06½- —
smaller containers.....lb. .12½- —
tanks .....lb. .07 - —
Oxide, dms., c.l., frt. equald.....lb. .19 - —
l.c.l., frt. equald.....lb. .20 - .21
tanks, frt. equald.....lb. .17½- —
Propyleneglycol, dms., c.l., frt. alld. E..lb. .16 - —
l.c.l., same basis.....lb. .16½- .18
tanks, same basis.....lb. .14½- —
Propylthiouracil, bots. works.....kilo.50.00 - —
Psyllium seed (see Fleaseed).
Pulsatilla herb, bls. .....lb. .60 - .65
Pumice, dom., grd., course, 0, 1, 1½, 2, 3, bgs., ton lots..lb. .03½- .04
Chicago .....lb. .04½- —
smaller lots.....lb. .03¾- .04¼
fine, bgs., ton lots.....lb. .03½- —
smaller lots .....lb. .03½- .04
Italian, silk-screen, fine, bgs., ton lots..lb. .04 - —
coarse, bgs., ton.....lb. .05½- —
sun dried, fine, bgs., ton lots...lb. .03 - —
coarse, bgs., ton lots.....lb. .04½- —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed bgs. .....lb. .27 - .29
Purple lake (see Red).
Pyrethrum concentrate, dewaxed, 20%; for aerosol bombs, dms., works.lb. 9.25 - 9.30
liquid (20 to 1), basis 2 grams pyrethrins per 100cc., odorless base, dms., works..gal. 6.25 - —
regular base, dms., works..gal. 6.20 - —
(30 to 1), base 3 grams pyrethrins, per 100cc. odorless base, bbls., works..gal. 9.30 - —
Flowers, fine-grd., 0.9% pyrethrins, bbls., works..lb. .30 - —
powder, 1.3% pyrethrins, bbls., works..lb. .42 - —
Pyridin, denaturing, ref. dms., works, frt. equald..gal. 1.55 - 1.90
refd., 2° ret. dms., same basis..lb. .60 - .65
Pyridoxin hydrochloride, 100-gram lots, kilo. 550.00- —
Pyrites, Spanish, c.i.f. Atl. ports, long-ton. 8.00 -10.00
Pyrocatechin (see Catechol).
Pyronate, dms., c.l., divd. E. of Miss. gal. .70 - —
l.c.l., works .....gal. .70 - —
tanks, divd., E. of Miss.....gal. .60 - —
Pyronate prices W. of Miss., 3c. per gal. higher.
Pyrophyllite, standard, 200 mesh, bulk, c.l., mines..ton.11.00 11.50
325 mesh, bulk, c.l., mines....ton.14.00 - —
No. 3, 200 mesh, bulk, c.l., mines, ton. 9.50 - —



NATURAL PRODUCTS REFINING COMPANY
JERSEY CITY, NEW JERSEY

Pyrophyllite, insecticide grade, 200 mesh, bulk, c.l., mines..ton. 9.00 -10.00
rubber grade, 140 mesh, bulk, c.l., mines..ton. 7.00 - —
230 mesh, bulk, c.l., mines..ton.12.00 - —
Pyrophyllite in paper bgs., $1.50-$2.50 per ton extra.
Pyroxylin scrap, opaque, amber, cs., works..lb. .17 - —
black, cs., works.....lb. .14 - —
gray, cs., works.....lb. .14 - —
mixed, mottled, cs., works..lb. .12 - —
white, china, ivory, cs., works. lb. .17 - —
dense, cs., works.....lb. .17 - —
translucent, pastels, cs., works.lb. .17 - —
transparent, colorless, cs., works. lb. .19 - —
colors, cs., works.....lb. .17 - —
shavings, opaque, amber, cs., works. lb. .15 - —
mixed colors, cs., works.....lb. .14 - —
white, cs., works.....lb. .17 - —

Q

Quassia chips, ols .....lb. .07 09
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l..lb. .13½- —
Liq., 35% tannin, bbls., works..lb. .0225- —
tanks, same basis.....lb. .065 - —
solid, 63% tannin, bgs., c.l....lb. .08½- —
powd., 70% tannin, bgs., c.l....lb. .14½- —
ordinary, solid, 63% tannin, bgs., c.l., ex dock, duty extra..lb. .0821- .0850
Quebracho extract prices are based on $20 freight and $1 insurance per long ton.
Queen of the meadow root bgs....lb. .12 - .13
Quercitron crystals, bbls., l.c.l.....lb. .22½- —
Extract, liquid, bbls., l.c.l.....lb. .11½- —
solid, bgs.....lb. .28 - —
Quicksilver, flasks (76 lbs. net)..flask 79.00 -80.00
Quince seed, bgs.....lb 1.20 - 1.80
Quinidine, NF, V, cryst., cns.....oz. No stocks
powd., precip., cns.....oz. No stocks
Sulphate, USP, cns.....oz .95 - 1.15
Quinine, NF, cns., 100 ozs.....oz. .97½- —
Acetate, cns., 100 ozs.....oz. No stocks
Arsenate, cns., 100 ozs.....oz. No stocks
Arsenite, cns., 100 ozs.....oz. No stocks
Bisulphate, USP, cns., 100 ozs...oz. .73½- —
Citrate, cns., 100 ozs.....oz. No stocks
Dihydrobromide, bots., 50 ozs....oz. No stocks
Dihydrochloride, USP .....oz. .99½- —
Ethylcarbonate, NF, cns., 100 ozs.oz. No stocks
Ferrocyanide, cns., 100 ozs.....oz. No stocks
Formate, cns., 100 ozs.....oz. No stocks
Hydrobromide, NF, cns., 50-oz. cans, oz. .89½- —
Hydrochloride, USP, cns., 100 ozs.oz. .89½- —
Hydroiodide, cns., 100 ozs.....oz. No stocks
Hypophosphite, cns., 100 ozs.....oz. No stocks
Hydrophosphite, cns., 100 ozs.....oz. No stocks
Phosphate, NF, cns., 100 ozs....oz. 1.10 - —
Salicylate, NF, cns., 100 ozs.....oz. .95 - —
Sulphate, USP, cns., 100 ozs.....oz. .89½- —
Sulphocarbolate, cns., 100 ozs.....oz. No stocks
Tannate, USP X, cns., 100 ozs.....oz. No stocks
Tartrate, cns., 100 ozs.....oz. No stocks
Valerate, NF, IV, 100 ozs.....oz. 1.12½- —
Quinine-urea hydrochloride, NF, cns.oz .94½- —
Quinolin, dms., c.l., works.....lb. .32 - .50

R

R salt, dry, bbls. .....lb. .61 - 72
paste, dms .....lb. .57 - —
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. 1.45 - 2.25

Prices 1c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, Pipe), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, Pipe), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher, dlvd. Pacific coast prices equaled with Chicago, dlvd. Denver, Pueblo, Salt Lake City, Wichita

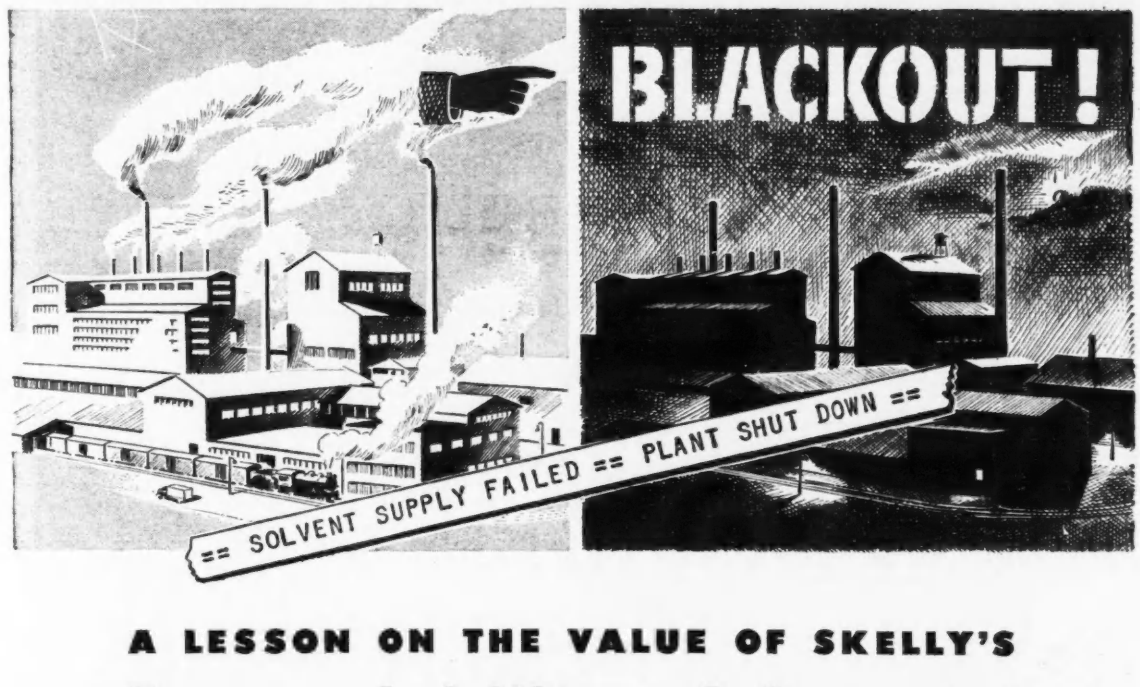
Cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies..lb. 1.27 - —
light shade, bbls., same basis.lb. 1.10 - —
Maroon, bbls., same basis.....lb. 1.35 - 1.45
medium shade, bbls., same basis. lb. 1.20 - —
medium-light shade, bbls., same basis..lb. 1.15 - —
orange-red, bbls., same basis..lb. 1.05 - —

Red cadmium lithopone, all shades, in smaller pkgs. 5c. per lb. higher; all prices are 1c. per lb. higher ex whse., Los Angeles and San Francisco.

Carmine, No. 40, dms., works....lb. 5.50 - 5.65
smaller containers, works.....lb. 6.10 - 6.15
Crocus martis (see Red, maroon, oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works.....lb. 1.35 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y. lb. .10 - .10¼
English, all shades.....lb. .15 - —
Iron oxide, synth., bbls.....lb. .10½- .10¾
reduced, 85% copperas oxide, bbls., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., E. St. Louis, and Trenton, N. J. lb. .06¾- —
80% copperas oxide, bbls., same basis..lb. .085 - .094
Lake C toner, alizarin, bbls., works lb. 1.05 - —
Lithol toner, bbls., works.....lb. .75 - .77
Lithol-rubin toner, alizarin lake, bbls., works..lb. 1.30 - —
Maroon, alizarin lake, 25% kgs., works..lb. .40 - .43
toner, bbls., works.....lb. 1.35 - 1.50
Cadmium, deep, bbls., works...lb. 1.20 - —
regular, bbls., works.....lb. 1.10 - —
Iron oxide, bgs., c.l.....lb. .0215- —
l.c.l., bgs.....lb. .027 - —
MNPT toner, kgs., works.....lb. 3.25 - —
Maroons in smaller pkgs., 5c. per lb. higher
Mercury oxide, tech., bbls., 10,000 lbs., works..lb. 2.00 - —
smaller lots, works.....lb. 2.02 - —
Metallic, bbls., works.....lb. .02½- .02¾
Oxide (see Red, iron oxide).
Oxide, Persian gulf, bgs., works..lb. .06½- —
Para toner, bbls. .....lb. .85 - .88
chlorinated, kgs. .....lb. .95 - 1.05
concentrated, alizarin lake, kgs., works lb. .80 - —
Phloxin toner (see Red, eosin toner).
Phosphotungsic, rhodamine Y, kgs., works..lb. 4.45 - —
Pink lake, alizarin, bbls., works..lb. .20 - .25
Purple lake, kgs. .....lb. 1.35 - —
Rose lake, alizarin, bbls., works..lb. .25 - .28
Scarlet ink toner, kgs., works..lb. .55 Nom.
Spanish oxide, grade I, c.l., bbls..lb. .05¼- .06½
Red toluidin toner, alizarin lake, kgs., works..lb. 1.30 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., E. St. L.....lb. .21 - .23
Venetian, 15% bgs., works.....lb. .0310- —
20%, bgs., works.....lb. .0320- —
25%, bgs., works.....lb. .0350- —
30%, bgs., works.....lb. .0380- —
35%, bgs., works.....lb. .0415- —
40%, bgs., works.....lb. .0440- —
Vermilion, Amer., bbls .....lb. .22¼- .48
Quicksilver, cns.....lb. 2.27 - —
Red precipitate, NF, powd., fib. dms.lb. 2.17 - 2.19
Red saunders, wood, grd., bbls.....lb. 35 - —
Resorcinol, tech., dms., works.....lb. .68 - —
USP, cryst., dms., works.....lb. 1.70 - —
Rhatany root, bgs. .....lb. .11 - .12
Rhubarb root, whole, cs. .....lb. .65 - .67
powd., bbls. .....lb. .70 - .77
Riboflavin, bots. .....kilo.150.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif.lb. .79 - —
Rochelle salt, gran., powd., bbls., 5,000 lbs...lb. .32½- —
smaller lots.....lb. .33 - —
Rose flowers, pale, bls. .....lb. .24 - .26
Rosemary flowers, bls. .....lb. 1.55 - 1.65
Leaves, French, bls. .....lb. .13 - 13½
Portuguese, bls .....lb. .07½- .08
Spanish, bls. .....lb. .13 - 13½
Rosin, gum (see Naval Stores, Protective Coatings market).
Wood, B, dms., c.l., works..100 lbs. 5.00 - —
FF, dms., c.l., works.....100 lbs. 6.50 - —
G, H, I, dms., c.l., works..100 lbs. 8.85 - —
K, dms., c.l., works.....100 lbs. 8.85 - —
M, dms., c.l., works.....100 lbs. 8.85 - —
N, dms., c.l., works.....100 lbs. 8.85 - —
W-G, dms., c.l., works.....100 lbs. 8.90 - —
WW, dms., c.l., works.....100 lbs. 8.90 - —
X, dms., c.l., works.....100 lbs. 9.00 - —
Rotenone, cryst, bbls., works.....lb.20.00 -24.00
Extract, liq., dms., works..per unit. 1.75 - —
Powder (see Cube root).
Rottenstone, bgs., c.l., mines....ton.36.00 - —
l.c.l., mines .....ton.43.00 - —
Rue herb, bls. .....lb. .45 - .48
Rutin, bots. .....gram. .28½- .60

S

Sabadilla seed, powd., bbls.....lb. .72 - .75
activated ground with lime, bbls.lb. .42 - .50
Saccharin, gran., soluble, 1,000 lbs...lb. 1.40 - 1.90
smaller lots.....lb. 1.50 - 2.50
powd., soluble, insoluble, dms., 1,000-lb. lots..lb. 1.45 - —
smaller lots.....lb. 1.55 - —
Safflower (see Saffron, Mexican).
Saffron, Mexican, bls.....lb. 1.50 - 1.55
Spanish, USP, tins.....lb.32.00 -32.50
boxes .....lb.31.00 -31.50
Safrol, cns .....lb. .95 - 1.45
Sage, Cyprian, bls. .....lb. .14 - 14½
futures, bls. .....lb. .14½- .15
Dalmatian, bls. .....lb. .25 - .26
Greek, fancy, bls. .....lb. .18 - .18½
Palestine, bls. .....lb. .16 - .16½
Spanish, bls. .....lb. .13½- .14
Sago flour, bgs.....lb. .09 - .09½
Salicin, bots. .....lb. No stocks
cns. .....lb. No stocks
Saligenin, dms., works.....lb.15.00 -20.00
Salol, gran., bbls., kgs. .....lb. 1.00 - —
fib. dms. .....lb. 1.02 - 1.05
Powdered salol, 10c. higher
Salt, rock, bgs., c.l. .....ton.17.50 - —
l.c.l. .....ton.21.70 - —
Salt, table, vacuum, common, fine, bgs., c.l..ton.18.60 - —
l.c.l. .....ton.25.10 - —
Saltcake, dom., bulk, works.....ton.20.00 -26.00
Chrome (see Chrome cake).
Saltpeter, cryst., bbls., 10 tons 100 lbs.12.40 - —
smaller lots.....100 lbs.12.65 -12.90
gran., bbls., 20 tons.....100 lbs. 8.60 - —
smaller lots.....100 lbs. 9.00 - 9.50
powd., bbls., 20 tons.....100 lbs. 9.00 - —
smaller lots .....100 lbs.10.00 -10.50
Saltpeter in bags is 25c. per 100 lbs. less than in barrels; in kegs it is $1 more.
Sanguinarine nitrate, bots.....oz. 4.75 - 5.50
Santonin, cryst., powd., cns.....kilo.175.00 -185.00
Saponin, No. 1, cns. .....lb. 2.45 - —
Sarsaparilla root, dom., bls. .....lb. .45 - .50
Honduras, bls.....lb. .50 - .55
Mexican, bls.....lb. .52 - .53
Sassafras bark, ord., bls. .....lb. .45 - .50
select, bls. .....lb. .65 - .70
Savory, French, bls. .....lb. .21 Nom.
Saw palmetto berries, bgs.....lb. .24 - .25
Scammony resin, lump, cns. .....lb. 2.10 - 2.25
powd., cns. .....lb. 2.20 - 2.30
Root, bgs. .....lb. .13 - .14
Schaeffer's salt, bgs. .....lb. .60 - —
Seidlitz mixture, bbls., 5,000 lbs...lb. .27½- —
smaller lots.....lb. .28½- —
kegs, 5,000 lbs. .....lb. .28½- —
smaller lots .....lb. .28½- —
Selenium, powd., cns., 10-lb. lots...lb. 2.10 - —
cs., 1,000-lb lots.....lb. 2.00 - —
Senega root, bls. .....lb. 2.25 - 2.30



A LESSON ON THE VALUE OF SKELLY'S

Dependability of Supply!

"DOC" MacGEE SAYS: Maybe the possibility of a delivery failure in your solvent supply . . . due to some unforeseen shortage . . . seems remote to you. Perhaps such a solvent shortage has never caused a temporary shutdown in any department of your plant. But the mere fact that the possibility does exist, and that shutdowns of this nature do occur, makes *extra precaution* only sensible. That is why so many solvent users have come to place a high value upon Skellysolve's *dependability of supply*.

Other things are important, too, of course. Purity, uniformity, close boiling ranges, freedom from foreign tastes and odors . . . all these we guard with unceasing vigilance.

Skellysolve's *dependability of supply*, however, is something else. We are proud of our record in supplying various types of special fractions, unfailingly, without regard to weather, season, or rush of previous orders. We have our own facilities for producing, purifying, fractionating, handling, storing, and transporting extra quality naphthas that are unsurpassed in the field. Solvents are our *business*. We have pioneered many of the developments in the field of special naphthas. And we are in the business to stay!

So, if some failure of your solvent supply would be a serious matter in your plant, we suggest that you give Skellysolve a trial. We're sure that, whether you judge your solvent on quality of product, promptness of service, or dependability of supply, you'll be *satisfied* with Skellysolve!

SKELLYSOLVE
In the Ink, Paint, and Drug Field

Skellysolve meets every special naphtha quality needed in this field . . . purity, uniformity, close boiling ranges, low evaporation, etc. That is why you can rely on every Skellysolve. There is one with special qualities for production of paint, varnish, oilcloth, ink, linoleum, and other related products . . . as well as for laboratory use. For instance, there is a full line of V. M. & P. naphthas, mineral spirits, and lacquer diluents, plus other special hydrocarbons. And, for help on your particular problems, remember to use the services of Skellysolve Technical Fieldmen.

SKELLY

Skellysolve

SOLVENTS DIVISION, SKELLY OIL COMPANY, KANSAS CITY, MO.

Senna Leaf—Sodium Phosphate

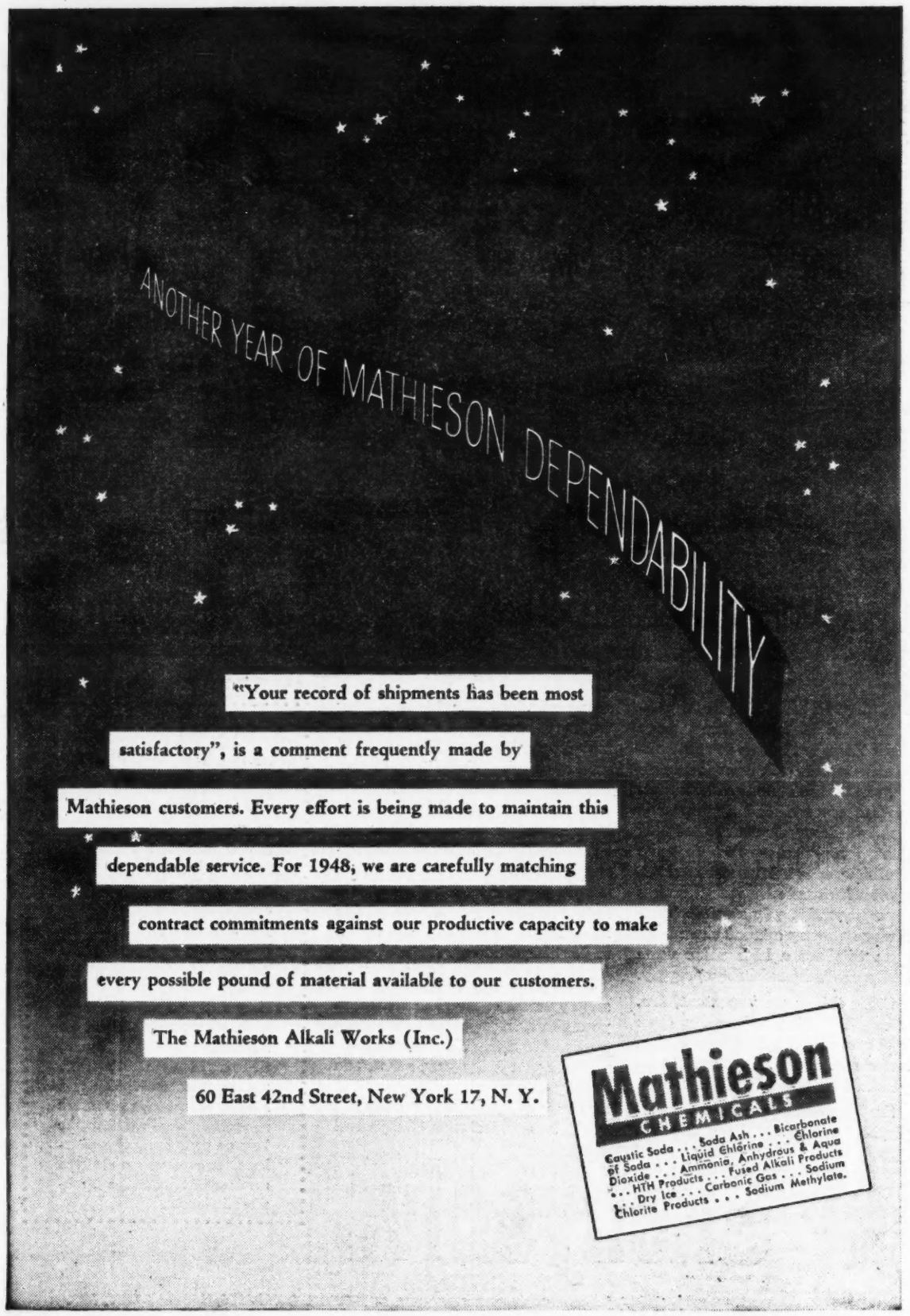
Senna leaf, Alex., half-leaf, bls. ..lb. .26 - .27
siftings, bgs. ..lb. .23 - .24
Tinnevelly, No. 1, bls. ..lb. .24 - .25
No. 2, bls. ..lb. .18 - .20
No. 3, bls. ..lb. .15 - .16
Pods, bls. ..lb. .15 - .16
Serpentaria root, bls. ..lb. 3.00 - 3.25
Shellac, bleached, bonedry, bgs., 1,500-lb. lots..lb. .63½- —
bbls., 1,500-lb. lots..lb. .64 - —
kgs., 1,500-lb. lots..lb. .66 - —
refined, bgs., 1,500-lb. lots..lb. .71½- —
bbls., 1,500-lb. lots..lb. .72 - —
kgs., 1,500-lb. lots..lb. .74 - —
bonedry shellac sales of less than 1,500 lbs., at following additions to prices:—1c., more for bgs., bbls., or kgs.
Lemon, No. 1, bgs. ..lb. .68 - .70
No. 2, bgs. ..lb. .66 - .68
Superfine, bgs., 10 bgs. ..lb. .61 - .62
TN, bgs., 10 bgs. ..lb. .59 - .60
Shellac in 1 to 9 bgs., 1c. more.
Silica, amorph., dry-grd. 325 mesh, bgs., c.l., Ill. works..ton24.10 -40.00
l.c.l., works..ton29.00 - —
wet-grd., 320 mesh, bgs., c.l. works..ton24.00 -40.00
l.c.l., works..ton29.00 - —
Hard-quartz, 99½%, 325 mesh, bgs., c.l., works..ton26.00 - —
l.c.l., works..ton25.00 - —
140 mesh, bgs., c.l., works..ton15.00 - —
l.c.l., works..ton20.00 - —
Tetrachloride, tech., dms., c.l., works..lb. .15½- —
l.c.l., works ..lb. .16½- .27
Silver bullion, ingots, cs. ..oz. .74⅝- —
Cyanide, fib. dms., 2,500-oz. lots..oz. .62½- —
1,000-oz. lots ..oz. .62½- —
500-oz. lots ..oz. .62¾- —
250-oz. lots ..oz. .63 - —
Silver nitrate, CP, cryst., bots., 2,500-oz. lots..oz. .48 - —
1,000-oz. lots..oz. .49¼- —
500-oz. lots..oz. .49½- —
250-oz. lots..oz. .49¾- —
USP granular silver nitrate, 2c. per oz. higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots..oz. .45 - —
strong, bots., dms., 1,000-oz. lots. oz. .40 - —
Simarubra bark, bls. ..lb. .85 - .86
Skullcap herb, Eastern, bls. ..lb. .85 Nom.
Western, bls. ..lb. .30 - .35
Skunk cabbage root, bls. ..lb. .44 - .45
Slate flour, bgs., c.l., works..ton11.00 -12.00
l.c.l., ex whse..ton20.00 -60.00
Sloe berries, bgs. ..lb. .33 - .40
Smalt, black, ctns. ..lb. .11 - —
Blue, ctns. ..lb. .16 - —
Snakeroot, Canada, bls. ..lb. .63 - .65
Soapbark, bls. ..lb. .18 - .19
crushed, bls., bbls. ..lb. .25 - .26
cut, foreign, bbls. ..lb. .30 - .31
powd., bbls. ..lb. .28 - .29
Soda ash, dense, 58%, paper bgs., c.l., works..100 lbs. 1.38 - —
l.c.l., stock points, zone 1..... 100 lbs. 2.78 - —
2 ..100 lbs. 2.88 - —
3 ..100 lbs. 3.28 - —
4 ..100 lbs. 3.88 - —
bbls., c.l., works..100 lbs. 1.78 - —
l.c.l., stock points, zone 1..... 100 lbs. 3.18 - —
2 ..100 lbs. 3.28 - —
3 ..100 lbs. 3.68 - —
4 ..100 lbs. 4.23 - —
bulk, c.l., works..100 lbs. 1.18 - —
Soda ash, light, 58%, paper bgs., c.l., works..100 lbs. 1.30 - —
l.c.l., stock points, zone 1..... 100 lbs. 2.65 - —
2 ..100 lbs. 2.80 - —
3 ..100 lbs. 3.15 - —
4 ..100 lbs. 3.75 - —
bbls., c.l., works..100 lbs. 1.70 - —
l.c.l., stock points, zone 1..... 100 lbs. 3.05 - —
2 ..100 lbs. 3.20 - —
3 ..100 lbs. 3.55 - —
4 ..100 lbs. 4.15 - —
bulk, c.l., works..100 lbs. 1.10 - —

Soda ash prices f.o.b. stock points in zones indicated. Minimum quantity 500 lbs. For less than 500 lbs. prices are ex-warehouse. Sales zones are: (1) All States E. of Miss R. and N. of south bound. of Ky., 31°, Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 98°, Kan., Neb., W. of 98°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

Caustic, flake, powd., 76%, dms., c.l., works..100 lbs. 3.25 - —
l.c.l., dlvd. zone 1....100 lbs. 4.60 - —
zone 2 ..100 lbs. 4.75 - —
zone 3 ..100 lbs. 5.10 - —
zone 4 ..100 lbs. 5.70 - —
liquid, 50%, sellers' tanks, works, dry basis..100 lbs. 2.25 - —
70%, sellers' tanks, works, dry basis..100 lbs. 2.35 - —
Soda caustic, solid, 76%, dms., c.l., works..100 lbs. 2.85 - —
l.c.l., dlvd. zone 1....100 lbs. 4.20 - —
zone 2 ..100 lbs. 4.35 - —
zone 3 ..100 lbs. 4.70 - —
zone 4 ..100 lbs. 5.30 - —

Prices f.o.b. stock points in zones indicated, minimum quantity 500 lbs.; for less than 500 lbs., prices are ex-warehouse. Soda caustic zones are same as soda ash.

Sal, bgs., c.l. ..100 lbs. 1.35 - —
works ..100 lbs. 1.10 - —
bbls., c.l. ..100 lbs. 1.40 - —
works ..100 lbs. 1.20 - —
Sodium acetate, anhyd., dms., dlvd. ..lb. .09½- .11
cryst., NF, bbls. ..lb. .07½- .08¼
Alginate, refined, water-soluble, bbls., works..lb. .79 - —
semi-refined, bbls., works..lb. .42 - —
white, powd., dms, works..lb. 1.50 - 1.60
Alkylbenzene-sulphate, dms., works. lb. .13 - —
Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.60 - —
l.c.l., works..100 lbs. 8.40 - —
other uses, bgs., c.l., works.100 lbs. 7.00 - —
l.c.l., works..100 lbs. 7.70 - 8.00
Antimonjate, bbls., c.l., dlvd. ..lb. .27 - —
l.c.l., dlvd. ..lb. .27¾- —
Arsenate, dealers, dms., c.l., works. lb. .12 - —
l.c.l., works. ..lb. .13½- .13¾
Arsenite, gray, dealers, dms., c.l., works..lb. .10¾- —
l.c.l., works. ..lb. .13¼- .13¾
Sodium arsenite, gray, ¾c. higher in Chi., 2c. higher in Houston, Tex., and Palo Alto, Calif.
Benzoate, tech., bbls., 2 tons. ..lb. .39 - —
smaller lots. ..lb. .40 - .41
USP, dms., 2 tons. ..lb. .46 - —
smaller lots. ..lb. 47 - .52
Bicarbonate, USP, gran., bgs., c.l., works..100 lbs. 2.25 - —
l.c.l., works..100 lbs. 2.75 - —
powd., bgs., c.l., works..100 lbs. 1.85 - —
l.c.l., works..100 lbs. 2.35 - —
Bichromate, bgs., c.l., works. ..lb. .09 - —
l.c.l., works. ..lb. .09½- .09¾
Sodium bichromate, in bbls., ¾c. higher.
Bifluoride, bbls., c.l., frt. alld. E. ..lb. .11½- —
l.c.l., frt. alld. ..lb. .13 - .14
kgs., l.c.l., frt. alld. ..lb. .12½- .14
Bisulphite, powd., bbls., c.l., works. 100 lbs. 3.50 - —
l.c.l., works ..100 lbs. 4.00 - —
solut, 32°, bbls., c.l., works..100 lbs. 1.30 - —
l.c.l., works..100 lbs. 1.65 - —
35°, bbls., c.l., works..100 lbs. 1.40 - —
l.c.l., works..100 lbs. 1.55 - —
40°, bbls., c.l., works..100 lbs. 1.75 - —
l.c.l., works..100 lbs. 1.80 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works. lb. .33 - .34
Cacodylate, bots., dms. ..lb. 8.50 -12.00
Carbonate (see Soda ash, Soda sal, Sodium monohyorate).
Chlorate, cryst., dms., c.l., works..lb. .06¾- —
l.c.l., works. ..lb. .08 - —
powd., kgs., works. ..lb. .08¼- —
Chloride (see Salt).
Chlorite, tech., dms., works. ..lb. .25 - —
Chromate, bbls., dms., c.l., works..lb. .10¾- —
l.c.l., works. ..lb. .10¾- .11
Citrate, USP VIII, bbls. ..lb. .20 - —
dms. ..lb. .21 - .25
USP XIII, gran., bbls. ..lb. .26 - —
dms. ..lb. .27 - .31
Sodium citrate, USP XIII, powd., prices 1c. higher.
Cyanide, 96-98%, dms. ..lb. .14½- .15
Diacetate, 33-35% acidity, bbls., works, dlvd..lb. .10½- .11¼
anhydrous, dms., works. ..lb. .11½- .13
Fluoride, white, 90%, bbls., c.l., works..lb. .09½- —
l.c.l. works. ..lb. .09¾- —
95%, bbls., c.l., works. ..lb. .09¾- —
l.c.l., works. ..lb. .10 - —
Formate, bgs., c.l. works. ..lb. .0695- .0750
l.c.l. ..lb. .07 - .0790
Glutamate, monobasic, kgs. ..lb. 1.46 - 1.48
Glycerophosphate, NF, flake, obls. lb. 1.80 - —
powder, bbls. ..lb. 1.85 - —
solution, 75%, cbys. ..lb. 1.06 - —
50%, cbys. ..lb. .82 - —
Hydrosulphide (see Sodium sulhydrate).
Hydrosulphite, dms., c.l., frt. alld. lb. .18½- .19
l.c.l., frt. alld. ..lb. .19 - .20
Hydroxide, tech. (see Soda, caustic).
USP, sticks, dms. ..lb. .24 - .29
Hypophosphite, NF, cns. ..lb. .67 - .70
Hyposulphite, tech., cryst., bgs., c.l., works, frt. equald..100 lbs. 2.75 - —
l.c.l., same basis..100 lbs. 3.15 - —
pea cryst., bgs., works, frt. equald..100 lbs. 4.30 - 5.25
Soda, hyposulphite, crystals, in bbls., 40c. higher; pea crystals, dms., 50c. higher.
USP (see Sodium thiosulphate).
Iodide, USP, dms., jars. ..lb. 2.72 - 2.83
Mandelate, dms. ..lb. 3.25 - 3.35
Metaborate, gran., bgs., c.l., works ton.90.50 - —
l.c.l., works. ..ton.108.60 -113.00
Sodium metaborate in bbls., $20 per ton higher
Metanilate, bgs. ..lb. .48 - —
Metasilicate, anhyd., bbls., c.l., works 100 lbs. 4.00 - —
gran., bgs., c.l., works..100 lbs. 3.00 - —
l.c.l. ..100 lbs. 3.50 - 4.25
bbls., c.l., works..100 lbs. 3.40 - —
l.c.l. ..100 lbs. 4.30 - 4.75
Monohydrate, bgs., c.l., works. 100 lbs. 2.00 - —
l.c.l., works..100 lbs. 2.45 - —
Naphthionate, bbls. ..lb. .46 - .55
Nitrate, crude, dom., bgs., c.l., works..ton.40.50 - —
bulk, c.l., works..ton.37.00 - —
Imp., 100-lb. bgs., c.l., All Gun. Pac. whse..ton.45.50 - —
bulk, c.l., same basis..ton.42.50 - —
Nitrite, 99%, bbls, c.l., works, frt. equald..lb. .06¾- —
West coast ports..100 lbs. 8.00 - 8.05
l.c.l., dlvd. ..100 lbs. 8.90 -21.00
Orthosilicate, anhyd., bbls., c.l., works, frt. equald..100 lbs. 4.00 - —
l.c.l., same basis..100 lbs. 5.45 - 5.80
hydrated, flake, bbls.,c.l., works, 100 lbs. 4.60 - —
l.c.l., works..100 lbs. 5.10 - 5.35
Oxalate, neut., bgs., works..lb. .10 - —
Pentachlorophenate, briquets, bgs., works, frt. equald..lb. .17 - .19
powd., bgs., c.l., same basis..lb. .16 - .16¾
l.c.l., same basis..lb. .17 - —
kgs., l.c.l., works, frt. equald..lb. .19 - —
Perborate, USP, bbls., c.l., works..lb. .14¾- —
l.c.l., works. ..lb. .15½- —
Peroxide, dms., c.l., dlvd. E. of Miss. lb. .14 - —
smaller lots, same basis..lb. .17 - —
Phosphate, dibasic, tech., anhyd., bgs., c.l., works..100 lbs. 6.25 - —
l.c.l., works..100 lbs. 6.75 - 7.00
cryst., bgs., c.l., works..100 lbs. 3.50 - —
l.c.l., works..100 lbs. 3.75 - 3.90
USP, dried, bbls., dms., works.lb. .159 - —
monobasic, anhyd., bgs., c.l., works. 100 lbs. 7.25 - 8.25
l.c.l., works..100 lbs. 7.65 - 9.00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Sodium phosphate, tribasic, anhyd., bgs., c.l., works, frt. equald. 100 lbs. 7.00 - —
l.c.l., same basis.....100 lbs. 7.50 - 8.00
cryst., bgs., c.l., works, frt. equald..100 lbs. 3.50 - —
l.c.l., same basis.....100 lbs. 3.90 - —
kgs., c.l., same basis.....100 lbs. 4.25 - —
l.c.l., same basis.....100 lbs. 4.45 - —
Sodium phosphates in bbls. 40c. higher than bgs.
USP (see Sodium phosphate, dibasic).
Prussiate, yellow, bgs.....lb. .12 - —
bbls.....lb. .12¼- —
Pyrophosphate, acid, bgs., c.l., works, frt. equald..100 lbs. 10.50 -11.25
l.c.l., same basis.....100 lbs. 10.75 -12.00
ferric, dms., 10,000 lbs., works. lb. .22 - —
smaller lots, works.....lb. .22½- —
tetrabasic, anhyd., bgs., c.l., works, frt. equald..100 lbs. 6.00 - —
Ricinoleate, tech., bbls.....lb. No stocks
Salicylate, dms.....lb. .57 - .60
Sesquicarbonate, bgs., c.l., works. 100 lbs. 1.60 - —
bbls., c.l., works.....100 lbs. 1.80 - —
Sesquicarbonate, bbls., l.c.l., dlvd., zone 1..100 lbs. 2.70 - —
zone 2.....100 lbs. 2.85 - —
zone 3.....100 lbs. 3.10 - —
zone 4.....100 lbs. 3.50 - —
Sodium sesquicarbonate l.c.l. price zones are same as those for soda ash.
Sesquisilicate, bbl., c.l., works 100 lbs. 3.90 - —
l.c.l., dlvd.....100 lbs. 5.15 - 5.30
Silicate, 40°, turbid., dms., c.l., works..100 lbs. .95 - 1.15
l.c.l., works.....100 lbs. 1.20 - 1.30
tanks, works.....ton. 15.00 - —
52° turbid, dms., c.l., works..... 100 lbs. 1.65 - —
l.c.l., works.....100 lbs. 1.80 - 2.60
tanks, works.....ton. 27.00 - —
Silicofluoride, bbls., c.l., works....lb. 09½- —
l.c.l., works.....lb. .07 - —
Stannate, dms., works, frt. alld. E..lb. 43½- .47½
Stearate, bbls., works.....lb. .19 - .24
Sulphate, NF VII, dried, powd., bbls. lb. .10 - 10½
tech., anhyd., bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.35 - 2.60
cryst. (see Glauber's salt)
USP, cryst., gran., bbls.....lb. .07 - .07½
Sulphanilate, bbls., works.....lb. 21½- —
Sulphide, cryst., bbls., c.l., works 100 lbs. 3.75 - —
l.c.l., dlvd.....100 lbs. 4.15 - —
flake, bbls., c.l., works....100 lbs. 4.50 - 5.50
l.c.l., works.....100 lbs. 5.00 - 5.75
lump, bbls., c.l., works...100 lbs. 4.00 - 5.50
l.c.l., dlvd.....100 lbs. 4.50 - 5.75
Sulphite, cryst., bgs., c.l., works. 100 lbs. 2.60 - —
l.c.l., works.....100 lbs. 3.00 - —
bbls., c.l., works.....100 lbs. 3.00 - —
l.c.l., works.....100 lbs. 3.40 - —
powd., bbls., c.l., works...100 lbs. 5.25 - —
l.c.l., works.....100 lbs. 5.50 - 6.00
Sulphocarbolate, USP 1X, gran., bbls., dms..lb. .28 - .33
powd., bbls.....lb. .30 - .35
Sulphocyanide, CP, dms.....lb. .55 - .65
tech., dms., works.....lb .30 - —
Sulphoricinoleate, bbls.....lb. .12 - —
Sulphydrate, flake, 70-72%, dms., c.l. lb. .05 - —
liquid, 45%, tanks, works... lb. 04½- —
Thiocyanate (see Sodium sulphocyanide).
Titanate, ctns., c.l., works.....lb. .10 - —
5 tons, works.....lb. .10½- —
2,000 lbs. and less, works.....lb. .10½- .13½
Tripolyphosphate, bgs., c.l., works, frt. equald..lb. 07¼- —
l.c.l.....lb. 07⅜- —
Thiosulphate, tech. (see Sodium hyposulphite).
USP, cryst., bbls.....lb. .10 - .12
Tungstate, tech., bgs.....lb. 1.40 - 1.45
Sodium-ammonium phosphate, bbls., works, frt. equald..lb. .23 - —
Sodium-carboxymethylcellulose, high vis., ctns., 2,000 lbs., works frt. alld..lb. .66 - —
smaller quantities, same basis.lb. .70 - —
Low and med. vis., ctns., 2,000 lbs., same basis..lb. .62 - —
smaller quantities, same basis.lb. .66 - —
Sodium-cinchophen, bots., dms., works. lb. 5.00 - 5.10
Sodium-formaldehyde sulphoxalate, stand. cont..lb. .19 - .22
Sodium-sulpha drugs (see Sulpha name).
Solvent naphtha, coaltar, dms., works. gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .28 - —
W. of Minnequa, Colo., works. gal. .23 - —
high-flash, dms., works.....gal. .32 - —
tanks, frt. alld. E. of Omaha to 2c. to 3½c. per gal..gal. .27 - —
Petroleum, 100° F. flash, tanks, Baytown, Tex..gal. .22 - —
150°F. flash, tanks, same basis. gal. 23½- —
Sorbitol, com'l, dms., c.l., works..lb. 25½- —
l.c.l., works.....lb. .26 - .35
Soybean flour, industrial, bgs., 40,000 lbs., works..lb. .067 - —
20,000 lbs., works.....lb. .069 - —
smaller lots, works.....lb. .071 - —
Protein, bgs., 40,000 lbs., works..lb. .29 - —
20,000 lbs., works.....lb. .29½- —
smaller lots, works.....lb. .29½- .33
Spearmint leaves, bls.....lb. .48 - .49
Spikenard root, bls.....lb. .45 - .46
Spruce extract, liq., reg., tanks, works. lb. 01⅞- —
powd., super, bgs., c.l., works..lb. .05¼- —
Squaw vine, leaves, bls.....lb. .45 - .50
Squill, red, fortified, powd., bbls., boxs. lb. 1.60 - —
White, bls.....lb. .10 - .12
powd., bbls., bxs.....lb. .16 - .20
St. Ignatius beans, bgs.....lb. No stocks.
St. John's bread, edible, bls.....lb. .12 - .18
Starch, corn, pearl, paper bgs., c.l. 100 lbs. 7.02 - —
Chicago.....100 lbs. 6.57 - —
l.c.l.....100 lbs. 7.28 - —
powd., paper bgs., c.l.....100 lbs. 7.13 - —
Chicago.....100 lbs. 7.63 - —
l.c.l.....100 lbs. 7.39 - —
Prices for corn starch in cotton bags, 17c. higher.
Potato, bgs., c.l.....lb. .10½ Nom.
l.c.l.....lb. .10½- .11½
Rice, bgs., c.l.....lb. No stocks
Sweetpotato, bgs., c.l.....lb. No stocks
Wheat, bgs.....lb. .0720- .0775
Stavesacre seed, bgs.....lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls.....lb. .45 - .50
Stoneroot, bls.....lb. 07½- .08
Storax, USP, cs.....lb. 1.00 - 1.10
Stramonium leaves, bgs.....lb. .22 - .25
Seed, bgs.....lb. .20 - .21
Streptomycin, hospitals.....gram. 3.40 - —
wholesalers.....gram. 2.72 - —

Strontium bromide, NF, cns., dms. cs. .62 - .75
Carbonate, 90%, bbls.....lb. .14 - .16
98%, bbls.....lb. .23 - .25
Chloride, tech., bbls.....lb. .22 - .24
Chromate, bbls., kgs., Phila.....lb. .45 - —
Iodide, jars, 25 lbs.....lb. 3.00 - 3.06
Lactate, dms.....lb. 1.30 - 1.35
Nitrate, bbls., c.l., works.....lb. .07¾- —
l.c.l., works.....lb. .08¼- .08¾
Oxalate, bbls., works.....lb. .38 - .40
Salicylate, NF, dms.....lb. 1.25 - 1.32
Sulphate, air-floated, 90% 325 mesh, bbls., works..ton. 58.00 - —
Strontium-calcium sulphide, phosphorescent dms., works lb. 2.50 - 2.55
Strophanthin, bots.....oz. 30.00 -50.00
Strophanthus seed, Kombe, bgs....lb. 2.25 - 2.30
Strychnine, NF, powd., cns., 100 ozs. oz. 1.25 - —
Sulphate, USP, powd., cns., 100 ozs. oz. 1.00 - —
Styrolyl acetate, bots.....lb. 2.50 - 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works..lb. .55 - —
tech., bbls., l.c.l., works.....lb. .50 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphadiazin, USP, dms., works...lb. 9.00 - 9.10
Sulphadiazin - sodium, USP, dms., works..lb. 10.50 -10.60
Sulphaguanidin, USP, dms., works, lb. 4.50 - 4.60
Sulphamerazin, USP, dms., works, lb. 9.00 - 9.10
Sulphamazerin - sodium, USP, dms., works..lb. 10.50 -10.60

Sulphanilamide, USP, powd., bots., works..lb. 1.05 - 1.10
Sulphanilamide, 30-60 mesh, 10c. higher.
Sulphapyridin, NF, powd., bots., tins, works..lb. 7.00 - 7.30
Sulphapyridin - sodium, powd., bots., dms., works..lb. 7.50 - 7.80
Sulphathiazole, USP, powd., dms., works..lb. 3.00 - 3.15
Sulphathiazole - sodium, USP, dms., works..lb. 3.00 - 3.15
Sulphonethylmethane, NF, kgs.....lb. 6.75 - 6.85
Sulphonmethane, NF, kgs.....lb. 5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract..long ton. 18.00 - —
vessels, Gulf ports, contract, long ton. 19.50 - —
export.....long ton. 20.00 - —
flour, comm'l, 99½%, bgs., c.l., works..100 lbs. 1.90 - —
l.c.l., works.....100 lbs. 2.50 - 2.85
precipitated, USP, bbls., kgs....lb. .18 - .30
refined, flour, extra fine, bgs., c.l., works..100 lbs. 3.15 - —
l.c.l., works.....100 lbs. 3.50 - 3.90
-heavy, bgs., c.l., works..100 lbs. 2.55 - 3.15
l.c.l., works.....100 lbs. 2.85 - 3.45
light, bgs., c.l., works....100 lbs. 2.75 - 3.15
l.c.l., works.....100 lbs. 3.05 - 3.75
flowers, USP, bgs., c.l.....100 lbs. 3.60 - —
l.c.l., works.....100 lbs. 3.90 - —
Refined sulphur flowers in bbls., 35c. higher.
rocks, bgs., c.l., works.....100 lbs. 2.75 - —
l.c.l., works.....100 lbs. 2.15 - 2.75
roll, bbls., c.l., works.....100 lbs. 2.45 - 3.05
l.c.l., works.....100 lbs. 2.45 - 3.45
rubbermakers', bgs., c.l., works, 100 lbs. 1.50 - 2.00

Sodium Phosphate, Tribasic—Sweet Basil

Sulphur chloride, 55-gal. dms., c.l., works..lb. .03½- —
l.c.l., works.....lb. .04½- —
10-gal. dms., c.l., works.....lb. .07¾- —
l.c.l., works.....lb. .08¼- —
Dioxide, liquid, com'l, cyls., works. lb. .085 - —
multi-unit cars, works..... lb. .06 - —
tanks, works.....lb. .044 - —
refrigeration, cyls., l.c.l., works. lb. — - —
Iodide, bots., jars.....lb. 3.90 - 4.11
Sumac bark, 28%, grd., bgs., ex dock. ton. 80.00 - —
Extract, No. 1, bbls.....lb. .10½- —
No. 2, bbls.....lb. .09 - —
crystals, bbls.....lb. .40 - —
stainless, bbls.....lb. .14½- —
Leaves, 30%, bgs., ex dock.....ton. 85.00 - —
Superphosphate run-of-pile, under 22% a.p.a. pulv., bulk, Balto.unit-ton. .76 - —
Florida.....unit-ton. .56 - .59
other points.....unit-ton. .57 - .59
Delivery points, Ariz., Calif., Colo., Ida., Kans., Nev., N. M., Ore., Utah, Wash., 88½c. per unit-ton plus frt. charges from Anaconda, Mont., in excess of $18.03 per ton; guaranteed 18, 19 or 20% a.p.a., ½c. per unit-ton higher.
triple, 48% or more, a.p.a., pulv., bulk..unit-ton. .71 - —
South Carolina.....unit-ton. .75 - —
Tennessee.....unit-ton. .80 - —
Prices on 48% triple superphosphate in other states and D.C., 71c. per unit-ton plus frt. charges from Tampa, Fla. Superphosphate, gran., 2c. per unit-ton higher than pulverized.
Sweet basil, bls.....lb. 1.10 - 1.25

Talc—Uva Ursi Leaves

T

Talc, dom., ordinary, grd., bgs., c.l., New York works..ton.21.00 - —
l.c.l., works.....ton.22.50 -24.50
Calif., bgs., c.l., works.....ton.22.00 -30.00
Vermont, bgs., c.l., works..ton.14.00 - —
l.c.l., works.....ton.17.50 - —
fibrous, New York, off-color, ground, bgs., c.l., works..ton.24.00 - —
l.c.l.....ton.26.50 -28.00
98.95-99.95%, grd., bgs., c.l., works..ton.21.00 - —
l.c.l., works.....ton.24.50 - —
98-99.5%, grd., bgs., c.l., works, ton.25.00 - —
l.c.l., works.....ton.30.00 - —
imp., Canada, grd., bgs., c.l.....ton.35.00 -45.00
Tallow, inedible, extra, loose.....lb. .22½- —
fancy, loose.....lb. .23 - —
special, loose.....lb. .22½- —
sulphonated, 25%, dms.....lb. .16 Nom.
50%, dms.....lb. .19 Nom.
Tamarinds, bbls.....lb. .10 - .12
Tankage, animal, feeding, 9-11% ammon., bulk..unit-ton.10.50 - —
Chicago.....unit-ton.10.50 - —
fertilizer, 9% ammon., 10% b.p.l., Chicago..unit-ton No stocks
10-11% ammon., 15% b.p.l., bulk bulk..unit-ton. No stocks.
Tansy leaves, bls.....lb. .15 - .16
Tapioca flour, high grades, bgs.....lb. .10¾- .11
medium grades, bgs.....lb. .09¾- .10
Java, bgs.....lb No stocks.
Tar acid oil, 15-18%, ret. dms., c.l., works..gal. .38 - —
l.c.l., works.....gal. .41 - —
tanks, works.....lb. .32 - —
25%, dms., c.l., works.....gal. .45 - —
l.c.l., works.....gal. .48 - —
tanks, works.....lb. .39 - —
Tar, coal (see Coaltar).
Pine (see Pinetar).
Tara pods, bgs., c.l., ex dock U. S. ports..long ton. No prices
powd., bgs., c.l., same basis..long ton.225.00 Nom.
Tarragon herb, bgs.....lb. .23½- .24
Leaves, bgs.....lb. 1.10 - 1.25
Tartar emetic, tech., gran., or powd., bbls., kgs..lb. .41 - —
dms.....lb. .41½- .44
USP, powd., bbls., dms., kgs...lb. .45 - .48
Terpin hydrate, com'l, bbls., c.l....lb. .24½- —
l.c.l.....lb. .25 - .25½
USP, cryst., bbls., dms.....lb. .70 - .75
powd., bbls., dms.....lb .75 - .80
Terpineol, Alpha (see A).
com'l, dms., c.l., South.....lb. .13½- —
l.c.l., South.....lb. .14 - —
tanks, South.....lb. .13 - —
pure, dms.....lb. .40 - .56
extra, dms.....lb. .47 - .75
Terpinglycol ether, dms., c.l., works, lb. .19½- —
l.c.l., works.....lb. .20 - —
tanks, works.....lb. .19 - —
Terpinyl acetate, extra, cns., dms..lb. .65 - 1.10
prime, cns., dms.....lb. .61 - 1.00
Terra alba (see Gypsum).
Tetrachloroethane, dms., works.....lb. .05 - .05½
Tetrachloroethylene, USP, 55-gal. dms., works..lb. .20 - .21½
smaller dms., works.....lb. .23½- .25
tech. (see Perchloroethylene).
Tetraethyl orthosilicate, dms., works, lb. .05 - —
Tetraethylenepentamine, tanks, works, lb. .50 - —
Tetrapotassium phosphate (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium sulphate, 99%, bots., dlvd..lb.15.00 -17.50
Theobromine, bots., kgs.....lb. 5.15 - —
Thiamine hydrochloride, dms., 100 grams..kilo.100.00 - —
Thiocarbanilide, dms.....lb. .24 - —
Thiodiphenylamine (see Phenothiazine).
Thiouracil, dms., works.....lb. 5.50 - 5.60
Thiourea, tech., dms., works.....lb. .40 - —
Thorium nitrate, cs., works.....lb. 3.00 - —
Thyme, French, bgs.....lb. .26 - .26½
futures, bgs.....lb. .25½- .26
Spanish, bls.....lb. .10½- .11
Thymol, USP, kgs.....lb. 3.65 - 3.75
Iodide, NF, dms.....lb 3.55 - 4.25
Timbo root (see Cube root).
Tin crystals, bgs., bbls., works....lb. .55 - .60
Metal, Bolivian.....lb. .80 - —
Straits.....lb. .80 - —
Oxide, bbls.....lb. .80 - .82
Tetrachloride, anhyd., dms., works, lb. .50 Nom.
Titanium dioxide, anatase, chalk-resistant, bgs., c.l., dlvd.....lb. .17½- —
l.c.l., dlvd.....lb. .18 - .18½
plain, bgs., c.l., dlvd.....lb. .17½- —
l.c.l., dlvd.....lb. .18 - .18½
rutile, natural, granular, bgs., c.l., works..lb. .06¾- —
l.c.l., works.....lb. .06¾- —
milled, bgs., c.l., works.....lb. .06¾- —
l.c.l., works.....lb. .06¾- —
non-chalking, bgs., c.l., dlvd. E. lb. .19½- —
l.c.l., dlvd. E.....lb. .20 - .20½
Titanium hydride, cns., works.....lb. 7.00 - 8.00
Pigment, barium base, bgs., c.l., dlvd..lb. .07 - —
l.c.l., dlvd.....lb. .07½- —
Calcium base, bgs., c.l., dlvd..lb. .06¾- —
l.c.l., dlvd.....lb. .07¼- —
Calcium-rutile base, bgs., c.l., dlvd. lb. .06¾- —
l.c.l., dlvd.....lb. .07¼- —
Magnesium base, bgs., c.l., dlvd..lb. No prices
l.c.l., dlvd.....lb. No prices
Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse., ½c. higher.
Tetrachloride, CP, 55-gal. dms., works..lb. .57 - —
smaller, pkgs., works.....lb. .65 - 1.22
technical, 55-gal. dms., works..lb. .32 - —
smaller pkgs., works.....lb. .40 - 1.00
Tolu balsam, cns.....lb. 3.35 - 3.40
Toluene (see Toluol).
Tolidin base (see Orthotolidin).
Toluol (toluene) 2°, indust., ret. dms., works..gal. .28 - .29½
tanks, E. of Omaha, frt. alld..gal. .23 - .24½
W. of Minnequa, Colo., works, gal. .23 - .24½
1° nitration, ret. dms., works....gal. .28 - .29½
tanks, E. of Omaha, frt. alld..gal. .23 - .24½
W. of Minnequa, Colo., works,gal. .23 - .24½

Prices on 2° toluol from petroleum, tanks, delivered (maximum freight allowances in parentheses), are:—Ark., 24½c. (2½c.); Del.-Md.-D. C., 24½c. (2½c.); Detroit, 24½c. (1 8/10c.); La., 24½c.; N. E., 24½c. (2¼c.); N. J., 24½c.; N. Y., 24½c.; E. Tenn., N. C. & S. C., 26½c. (5c.); Pa., 24½c. (2¾c.); W. Tenn., 24½c. (3½c.); Va., 25½c. (3½c.), and W. Va., 24½c. (2½c.).

Tonga, 50% bark and vine, bls....lb. .90 - .91
Tonka beans, Angostura, cks.....lb. 1.70 - 1.80
Brazilian, cs.....lb. .85 - .90
Surinam, cs.....lb. .85 - .90
Totaquine, USP, 100-oz. lots.....oz. .52 - —
Triacetin, dms., works.....lb. .40½- —
Tributyl citrate, dms.....lb. .41 - .50
smaller pkgs.....lb. .52 - .56
Phosphate, dms., l.c.l., frt. alld., E. of Rockies..lb. .68 - —
smaller pkgs.....lb. .72 - .74
Tributylamine, dms., c.l., works..lb. .78 - —
l.c.l., works.....lb. .81 - —
tanks, same basis.....lb. .07½- 09¼
Trichlorobenzene, dms., c.l., works, frt. alld. or equald..lb. .08½- .11
l.c.l., same basis.....lb. .09½- .12
Trichloroethane, dms., c.l., works..lb. .15 - —
l.c.l., works.....lb. .17 - —
Trichloroethylene, tanks, c.l., frt. alld., zone 1..lb. .09¾- —
zone 2.....lb. .10½- —
zone 3.....lb. .11 - —
zone 4.....lb. .11 - —

Trichloroethylene dms., c.l. prices ½c. higher; l.c.l. 1¼c. higher. Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. H., Okla., S. C., S. D.; (3) Col., Mont., (E), N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Tricresyl phosphate, coaltar, dms., c.l., frt. equald..lb. .32¼- .33
l.c.l., dlvd.....lb. .33 - .33½
tanks, dlvd.....lb. .31 - .32
petroleum, dms., c.l., dlvd.....lb. .37 - —
l.c.l., dlvd.....lb. .37½- —
tanks, dlvd.....lb. .36 - —
Triethanolamine, dms., c.l., frt. alld. E..lb. .20½- —
l.c.l., same basis.....lb. .21½- —
smaller containers.....lb. .24½- —
tanks, same basis.....lb. .19 - —
Triethyl citrate, dms.....lb. .34 - .42
smaller pkgs.....lb. .45 - —
Phosphate, dms., works, c.l.....lb. .38 - —
dms., l.c.l., same basis.....lb. .39 - —
tanks, same basis.....lb. .37 - —
Triethylamine, dms., c.l., works, basis 100%..lb. .34 - —
l.c.l., works, basis 100%.....lb. .36 - —
tanks, works, basis 100%.....lb. .30 - —
Triethyleneglycol, dms., c.l., frt. alld. E..lb. .18½- .19
l.c.l., same basis.....lb. .19½- .21
tanks, same basis.....lb. .17½- —
Triethylenetetramine, tanks, works.lb. .50 - —
Trimethylamine, anhydrous, cyl., works, basis 100%..lb. .20½- .30½
25%-40%, dms., c.l., works, basis 100%..lb. .29 - —
l.c.l., works, basis 100%.....lb. .29½- —
tanks, works, basis 100%.....lb. .25 - —
Triphenyl phosphate, bbls., c.l., frt. equal..lb. .26 - —
l.c.l., frt. alld.....lb. .27 - —
Triphenylguanidine, bbls., works....lb. .75 - —
Tripoli, air-floated, bgs., c.l., works.lb. .0175- —
double-grd., c.l., works.....lb. .016 - —
single-grd., bgs., c.l., works.....lb. .015 - —
Trisodium phosphate (see Sodium phosphate, tribasic).
Tuba root (see Cube root).
Tungsten metal, powd., 99.9%, dms., works..lb. 4.75 - —
Oxide, kgs., works.....lb. 2.85 - —
Turmeric root, Alleppey, bls.....lb. .24½- .25
Haitian, futures, bls.....lb. .13 - .13½
Jamaica, futures, bls.....lb. .15½- .16
Madras, bgs.....lb. .20 - .20½
Turpentine, gum (see Naval Stores, Protective Coatings market).
Sulphate, ret. dms., East.....gal. .65 - —
tanks, East.....gal. .40 - —
Wood, dest.-dist., dms., incl., c.l., works, South..gal. .45 - —
l.c.l., same basis.....gal. .46 - —
N. Y. whse.....gal. .60 - —
steam-dist., dms. incl., l.c.l., East. gal. .75 - —
tanks, South.....gal. .55 - —

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium oxide, black, bgs.....lb. 2.55 - —
yellow, kgs.....lb. 1.65 - —
Urea, dom., 46% N., bgs., c.l., works or ship. pts..ton.73.00 - —
l.c.l., bgs., ship. pts.....ton.75.50 - —
fertilizer comp., 42% N., bulk, c.l., works or Atlantic or Gulf ports. ton.73.00 - —
Urea-ammonia liquor (A and B), free ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..ton.59.00 - —
fixed ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..NH_3-ton.112.80 - —

C and D prices for Urea-ammonia liquor are $1.20 per ton of nitrogen higher than the A and B respectively for the same destinations.

Uva ursi leaves, bls.....lb. .12 - .13

In the Vanguard

# of FUNDAMENTAL CHEMICAL RESEARCH

The Velsicol Corporation, as a result of its pioneering research investigations in the economic utilization of petroleum hydrocarbon materials, has introduced a series of chemical products of wide spread importance to the Chemical Industry.

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V

Valerian root, Belgian, NF, bls....lb. .45 - .46
Indian, bls. ....lb. .40 - .41
Valonia beards, bgs., ex dock....ton.85.00 - —
Cups, bgs., ex dock....ton.56.00 -57.00
Extract, powd., bgs., ex dock, duty extra..lb. .09½- —
Vanadium pentoxide, CP, bgs., cns., works..lb. 7.00 - —
tech., dms., works....lb. 1.20 - —
Vanilla beans, Bourbon, tins....lb. 7.75 - 8.50
Mexican, cnts, tins....lb. 7.50 - 8.00
whole, tins....lb. 8.25 - 9.50
Tahiti, tins....lb. 4.00 - 4.25
Vanillin, ex eugenol, tins, 25 lbs....lb. 4.50 - —
smaller lots ....lb. 4.55 - 4.65
ex guaicol, tins, 25 lbs....lb. 3.00 - —
smaller lots....lb. 3.05 - 3.15
ex lignin, dms., 25-lb. lots....lb. 3.00 - 4.50
tins, smaller lots....lb. 3.05 3.15
smaller lots, tins....lb 3.05 - 3.15
Venice turpentine, artif., sus. ....lb. .24 - .25
Verdigris, bbls. ....lb. .28 - .29
Vinyl acetate, 55-gal. dms., works..lb. .16½- .17½
5-gal. cns., works....lb. .30 - —
tanks, works....lb. .15 - —
Trichloride (see Trichloroethane).
Vinylpyridin, rct, dms., works....lb. 1.50 - —
Viosterol, bots., 100 billion USP units mill units .04 - —
1 billion USP units....mill units. .05 - —
100 million USP units..mill units. .07 - —
Vitamin A (see Oils, codliver, fishliver).
A concentrate, dms., works.... mill. units. .36 - .40
B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
B_6 (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver and fishliver, Calciferol and Viosterol).
D_2 (See Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
P-F (see Acid, nicotin, and Nicotinamide).
Violet, methyl, toner (see M).
V.M.P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls....lb. 2.25 - 2.30
Tree bark, bls....lb. .55 - .75
Wattle bark, fair average, ex E. Afr., bgs., ex dock..ton.71.00 -72.00
merchantable, bgs., ex dock..ton.68.00 -69.00
extract, liquid, 35% tannin, bbls., works..lb. .07½- —
tanks, works ....lb. .06¾- —
solid, E. Afr., 61% tannin, ex dock, duty extra..lb. .07¾- —
S. Afr., 62% tannin, ex dock, duty extra..lb. .07¾- —
Wax, amorphous (see Wax, micro crystalline)
Wax, bayberry, bgs....lb. No stocks
Bees, bleached, USP, white, bricks, cs..lb. .70 - .73
slabs, bgs. ....lb. .69 - .71
crude, African, bgs....lb. .50 - .51
Western hemisphere, bgs....lb. .51 - .52
refined, yellow, bricks, cs....lb. .60 - .62
slabs, bgs. ....lb. .58 - .60
Candelilla, crude, bgs....lb. .62 - .64
refined, bgs. ....lb. .65 - .67
Powdered candelilla, 20 mesh, 5c. per lb. extra, 80 mesh, 5½c.; 100-200 mesh, 6c.
Carnauba, chalky, No. 3, bgs., ton lots..lb. .76 - .78
North country, No. 2, ton lots...lb. .84 - .85
No. 3, bgs., ton lots....lb. .78 - .79
refined, bgs., ton lots....lb. .84 - .85
yellow, No. 1, bgs., ton lots....lb. 1.44 - 1.45
No. 2 ....lb. 1.42 - 1.44
Powdered carnauba price differentials same as powdered candelilla.
Ceresin, dom., 132°-136° m.p., bgs. lb. .16 - .16½
138°-140° m.p., bgs....lb. .18 - .18½
158°-162° m.p., bgs....lb. .22 - .23
Japan, bgs....lb. .57 - .58
Microcrystalline, 170°-175° m.p., ASTM, amber, ctns, 30 tons yearly contract, group 3 works..lb. .16 - —
smaller lots, same basis....lb. .16 - .17½
170°-175° m.p., ASTM, black ctns., 30 tons, same basis..lb. .14½- —
smaller lots, same basis....lb. .14½- .15½
white, ctns., 30 tons, same basis. lb. .27 - —
smaller lots, same basis....lb. .27 - .29
190°-195° m.p., ASTM, amber, ctns., 30 tons, same basis..lb. .21 - —
smaller lots, same basis....lb. .21 - .22
190°-195° m.p., ASTM, black, ctns., 30 tons, same basis..lb. .19½- —
smaller ctns., same basis....lb. .19½- .20½
white, ctns., 30 tons, same basis. lb. .34 - —
smaller lots, same basis....lb. .34 - .35
Montan, crude, bgs....lb. .45 - .46
Ouricury, crude, bgs., ton lots....lb. .63 - .64
refined, bgs., ton lots....lb. .70 - .71
Ozokerite, dom., 189-190 m.p., bgs., c.l...lb. .36 - —
182-183 m.p., bgs., c.l....lb. .31 - —
171-172 m.p., bgs., c.l....lb. .27 - —
Spermaceti, blocks, cs....lb. .45 - .45
cake, cs....lb. .44 - .46
White lead (see Lead, white).
White precipitate, powd., dms., 50 lbs. lb. 2.00 - —
White pine bark, rossed, bls....lb. .20 - .21
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons, St. Louis, works ton.10.00 - —
40 tons, N. Y. whse....ton.18.00 - —
smaller lots, St. Louis, works.ton.12.50 - —
wet-grd., air-floated, 99% 325 mesh, bgs., c.l....ton.14.50 -27.50
99% 200 mesh, bgs., c.l....ton. No prices
90% 200 mesh, bgs., c.l....ton. No prices
water-floated, extra gilders, bgs., c.l..ton.14.50 -28.00
gilders, bgs., c.l....ton. No prices
putty grade, bgs., c.l....ton.13.00 - —
surface treated, bgs., c.l. Ohio works..ton.30.00 - —
Paris white, bgs., c.l....ton.25.00 -31.00
l.c.l. ....ton.25.00 -29.00
Precipitated, bgs., c.l....ton.18.00 -20.00
l.c.l. ....ton.22.00 -25.00
Wild cherry bark, thick, bls....lb. .06 - .07
thin, natural, bgs....lb. .17 - .18
rossed, green, bls....lb. .24 - .26
Wild indigo root, bls....lb. .30 - .31
Witch hazel leaves, bls....lb. .25 - .26
Witherite (see Barium carbonate, natural).
Woodflour, 40 mesh, bulk, c.l., works, East..ton.32.00 - —
l.c.l., same basis....ton.40.00 - —
60 mesh, bulk, c.l., same basis..ton.37.00 - —
l.c.l., same basis....ton.45.00 - —
80-100 mesh, bulk, c.l., same basis.. ton.40.00 -45.00
l.c.l., same basis....ton.50.00 -55.00
Woodflour in bgs. extra, returnable.
Woolfat (see Lanoline)
Wormseed, American, bgs....lb. .17 - .18
Levant, bgs. ....lb. 4.25 - 4.30
Wormwood, bls. ....lb. .50 - .60

X

Xanthorrhiza root, bls....lb. .25 - .30
Xylene (see Xylol).
Xylenol, 5°-7°, ret. dms., c.l., works, frt. equald. ..lb. .19¼- —
l.c.l., same basis....lb. .19¾- —
tanks, same basis ....lb. .18½- —
fractions, ret. dms., c.l., same basis. gal. 1.26 - 1.31
l.c.l., same basis....gal. 1.29 - 1.34
tanks, same basis....gal. 1.20 - 1.25
Xylidins, mixed, dms....lb. .38 - .38¼
Xylol (xylene), indust., ret. dms., works..gal. .30 - .31½
tanks, E. of Omaha, frt. alld...gal. .25 - .26½
W. of Minnequa, Colo., works. gal. .25 - .26½
10°, ret. dms., works....gal. .32 - .33½
tanks, E. of Omaha, frt. alld..gal. .27 - .28½

Valerian Root—Yohimbine Hydrochloride

Xylol, 5°, ret. dms., works....gal. .40 - .41½
tanks, E. of Omaha, frt. alld..gal. .35 - .36½
3°, ret. dms., works....gal. .45 - .46½
tanks, E. of Omaha, frt. alld...gal. .40 - .41½
Prices on 3 to 10-degree xylol from petroleum, tanks, delivered (maximum freight allowances in parentheses), are:—Ark., 26½c.; Del.-Md.-D. C., 26½c. (2¾c.); Detroit, 26½c. (1 8/10c.); La., 26½c.; N. E., 26½c. (2¼c.); N. J., 26½c.; N. Y., 26½c.; E. Tenn., N. C. and S. C., 28½c. (5c.); Pa., 26½c. (2¾c.); W. Tenn., 26½c. (3½c.); Va., 27½c. (3½c.); W. Va., 26½c. (2¾c.); the Chicago price is 23½c., f.o.b. terminal.

Y

Yara yara, cryst., bots., cns. ....lb. 1.62 - 1.75
Yeast, brewer's dry, 50 B units, dms..lb. .35 - —
90 B units, dms....lb. .45 - —
200 B units, dms....lb. .50 - —
300 B units, dms....lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul..lb. .32 - —
Barium chromate yellow price diffenentials in other States and city zones are those for chrome yellow below.
Benzidin, bbls., dlvd....lb. 1.60 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies...lb. 2.40 - —
Lithopone, all shades, bbls., frt. alld. E. of Rockies..lb. .85 - —
Cadmium yellows, Los Angeles and San Francisco, ex whse. 1c. per lb. higher.
Yellow chrome, CP, bbls., dlvd. N. Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts..lb. .27 - —
Dlvd. Ala., Fla., Ga., La., (Shreveport), 1½c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1¼c. higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago
Hansa, bbls., same basis as chrome. lb. 1.60 - —
Primrose, bbls., same basis....lb. 1.90 - —
Iron oxide, natural, bgs., c.l., works. lb. .01½- .02¾
l.c.l., works ....lb. .02¾- .03¾
French type, bgs., c.l....lb. .04 - —
l.c.l. ....lb. .04½- —
Peruvian type, bgs., c.l...ton.27.00 -32.00
synth., bgs., c.l., works....lb. .08½- —
l.c.l., works....lb. .08½- —
Mercury oxide, bbls., 1,000 lbs....lb. 1.93 - —
smaller lots....lb. 1.95 - —
Ocher, American, golden, bgs., works. lb. .01½- .02¾
Zinc, bbls., same basis as chrome..lb. .20 - —
Yellow dock root, bls....lb. .23 - .25
Yellow xanthorrhiza (see Xanthorrhiza).
Yerba santa leaves, bls....lb. .45 - .50
Yohimbine hydrochloride, vis....oz. 3.25 - 4.00

—Continued on page 43

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Foreign Relief Problems

Among the twelve forward steps suggested by the National Association of Manufacturers for the halting of inflation, none is more important than the tenth. The importance of that suggestion does not lie chiefly in the areas of inflation. It is fundamental in the greatest of today's needs—there are some greater than the checking of inflation which has already reached disquieting proportions—that of global economic stability.

The tenth step suggested in the NAM pronouncement has to do with the giving of emergency relief to foreign peoples. It declares (1) that such relief should be in goods, not in dollars, and (2) that the goods be procured by an American relief agency in whatever markets, here or abroad, prove most economical. The second point is by far the more important. The people of the United States, taken as a whole, have a far greater need for goods today than they have for money. It would be folly, no matter what the measure of necessity in foreign relief, to deprive them further of goods beyond the minimum of inescapable necessity. Whatever can be bought in other lands should there be procured—but not at prices which, in some countries, already give indications of being in no degree influenced by a desire to do a good deed.

In large degree the peoples for whom the United States, largely alone, must provide emergent relief should be required to give plain evidence of their desire and intent to make the emergency as short as possible. That, in truth, should have been done last Spring, when inducements and incentives, properly presented, could have brought much more extensive cultivation of the fields in lands whose most serious prostration is that of the morale of their peoples. There must be some measure of charity—food cannot now be grown—but its measure must be kept down.

It will be wise that the procurement of goods for the emergent relief of countries in the Eastern Hemisphere be handled by an American agency. It will be much more wise that the distribution of the relief also be fully under American control. The NAM suggestion makes the point that relief goods should be identified as having been provided by the United States. It is far more important that every assurance be had that they go where they should. To entrust their distribution to any political agency in any recipient country will be to defeat largely, if not wholly, the purpose of the relief program—and that is not primarily to identify the benefactor.

It will be very necessary—and the outlook in that respect is not promising—that the distribution of relief provided by the United States be carried out in a businesslike manner. There is grave doubt that competent persons can be enlisted in the relief service. Every effort must be made to get them, because the lag in recovery in war-crushed countries is in no small degree the result of the incompetence of those who represent the United States in the work of restoration. The providing of relief in the emergencies of Europe and Asia is a business job. It must be done by businessmen.

Inflation Belongs to All

If ever there was a gigantic display of the ancient mote-and-beam blindness in the recognition and proclamation of faults, it is now—in the mess which attends the questions of whether inflation exists, who is to blame for it, and what must be done by whom to check or eliminate it. The language of the President's recent averment that inflation had to be fought was plain. Some of the things to be done were clearly set forth. But, there was no information on how they were to be done or who should do them.

The blame for, not inflation, according to current pronouncements, but the results of inflation, such as, particularly, high prices which got here somehow without inflation, is laid on every other fellow by every other fellow; so is the failure to do something about it. The President's administration has no plan of attack; neither has its political opposition. Labor wants a thirty-hour week; management wants one of forty-two or even forty-eight hours—both claim that their workweek would mean the more output. Many holler for more and more production, but offer no suggestion of what should be produced from what or what would be done with it when it couldn't be shipped after it had been produced.

It has been solemnly pronounced, in circles where the matter has had serious, capable consideration, that world peace cannot be unless there is world coordination and correlation, cooperation and collaboration. The truth of that is not difficult to discern. It is equally true that there can be no economic equity and stability in this, or any other, country unless there is coordination and correlation, cooperation and collaboration among all who must have a part in the creation and the maintenance of such a condition—and that is everybody. So, self-analysis is a universal need, and everybody's business must be the business of each and all.

Freightcars Come Slowly

There is no planned economy nor economic planning for the national welfare in the areas of transportation in the United States today. The cities and the highways are crowded to the limit with passenger and freight motor vehicles. December production of cars and trucks is scheduled at more than 450,000. In comparison with that figure, the expected output of railway freightcars is almost negligible. And lack of freightcars is one of the most potent resisters of adequate industrial production.

In the face of that unbalance, the economic probers in Congress are trying to find out why most of the nails produced today are going into gray, or black, or dappled markets—and should there be an allocation of steel in that connection. Nails are a necessity, of course, and they are hard to get. Their cost is somewhat excessive. But, enough freightcars cannot be got at any price.

Freightcars, of course, cannot safely be made lighter than they were before the recent war. That may be one reason why automobiles are being turned out about fifty times as fast. But, the answer to the grave problem of inadequate rail transportation facilities does not lie there anymore than it does in how nails are being distributed. The shortage of freightcars and the, by every criterion, slow speed of their production lay before the political groups which deem it necessary to assay the solution of commercial economic problems a very pertinent question.

OPD Forum

Outlet for Individual Opinion

(Anonymous communications will not be recognized, but a signer's name will be withheld at request.)

Dutch View of Quinine

The Editor,
OIL, PAINT AND DRUG REPORTER.
Sir:—

The Summer of 1947 provided two surprises that have affected the quinine business and the trade in cinchona bark from which it is derived.

The first was the offering for sale by the United States government of plantations in Costa Rica and Guatemala, started during the war in an attempt to build up a New World supply of cinchona bark.

The second was the announcement by the Dutch that their Javanese plantations had not materially suffered from Japanese occupation, and that, as of July, they had made available the products of over 90 percent of these plantations.

The implications of both announcements have had profound effects upon American importers of quinine and upon American processors who, before the war, imported cinchona bark for the extraction of quinine here.

Over 300 tons of bark have already reached the United States from Java, and ample supplies are in sight for the future from the same source. This bark is to be available at the same price as that charged to European manufacturers, without any insistence upon purchase of a quota of foreign-manufactured quinine.

Due to reduction in the incidence of malaria in the United States and competition of synthetic antimalarial drugs, neither imports of bark nor of quinine manufactured abroad are likely to reach prewar volume, and unlike most things, quinine still sells at the price set by OPA in 1942, of 80½ cents per ounce. Imports of quinine, mostly from Holland, have totaled 600,000 ounces during the last four months, and much more is available when needed. So far from being a shortage, the planters and manufacturers are now faced with a surplus, for the very good reason that trees which would normally have been harvested during the war years, have increased in size and consequently yield more quinine.

As to quinidine, the use of which increased here during the war due to its recently discovered efficacy in heart arrhythmias, the shipments up to June, 1948, will total over 475,000 ounces, as against our yearly needs before the war of 126,000 ounces. Both planters and manufacturers are convinced that, if, as some heart specialists have predicted, we shall ultimately need 700,000 ounces of quinidine yearly, it will be forthcoming.

There is, thus, neither a shortage of quinine or quinidine in sight, which is also emphasized by another unexpected feature. Before the war, and during it, many individuals and governments started cinchona plantations, mostly to help malaria-stricken native populations. These comprise extensive plantations in British India and the Belgian Congo, and smaller efforts in Indo-China, Tanganyika, Guatemala, Bolivia, and Peru. Only Guatemala and the Belgian Congo produce enough plantation bark for export, but these combined efforts make it a bit archaic to speak of a "Dutch monopoly." Only since the war has the potential of these non-Dutch plantations been realized.

The Dutch have often been charged with burning bark to keep up the price, much as

—Continued on page 52

says he is echoing the views of Mr. Truman in terming it a David-and-Goliath struggle—the individual farmers against the economic giants.

Government Contract Rules

Secretary of Labor Schwellenbach is proposing an amendment to the Copeland act regulations to relieve government contractors from the requirement of attaching complete payrolls to the weekly affidavit required by the act. He will hold hearings on the amendment December 18.

Contractors and subcontractors employed on public building and public work and on building and work financed in whole or in part by loans or grants from the Federal government now must furnish each week a sworn affidavit with respect to the wages paid each employee during the preceding weekly payroll period. The data must be supplied in complete detail for each worker.

It is Mr. Schwellenbach's belief that the purpose of the law can be met by requiring each contractor or subcontractor to preserve his weekly payroll records for two years. This would eliminate much clerical work and reduce the expense of processing and handling of such payroll reports.

Washington Talks It Over

—Continued from page 5

passed and signed into law, and now any bill touching on the tax goes to the agricultural committee.

Even the congressional streamlining law could not upset this precedent.

Transportation Government

A new move is on foot to elevate the level of government agencies having to do with regulation of transportation. Bills have been introduced in both the senate and the house to set up a department of transportation with cabinet status, which would have overall supervision of the railroads, airlines, water carriers, and highway traffic.

The theory behind the move is that consolidation of all government agencies dealing with transportation of one form or another would lead to fewer conflicts around the conference table. But, if one industry is to be picked out and given cabinet status, should not the same treatment be accorded other industries suffering from conflicting Federal supervision?

This is a question that will have to be answered before the movement succeeds. A committee or five senators, headed by Senator Homer E. Capehart of Indiana, will endeavor to find the answer in the next several weeks.

Cooperatives Taxation Battle

The fight over taxation of farmer cooperatives is beginning to reach the boiling-point, with all indications pointing to its becoming one of the prime campaign issues in the political contests of 1948. The business economics of the question is rapidly being lost sight of, and to hear the cries of the opposing camps, it has become a struggle for survival of the fittest.

The lengthy hearings held by the ways and means committee of the house a few weeks ago have sharpened the issue and thrown a cloud over the main question of whether the Federal tax laws benefit the farmer cooperative to the disadvantage of the proprietary competitor. And if the issue ever reaches the floors of Congress, it is almost a foregone conclusion that it will be settled on a sentimental basis more than anything else.

Secretary of Agriculture Anderson has jumped into the fight with both feet and

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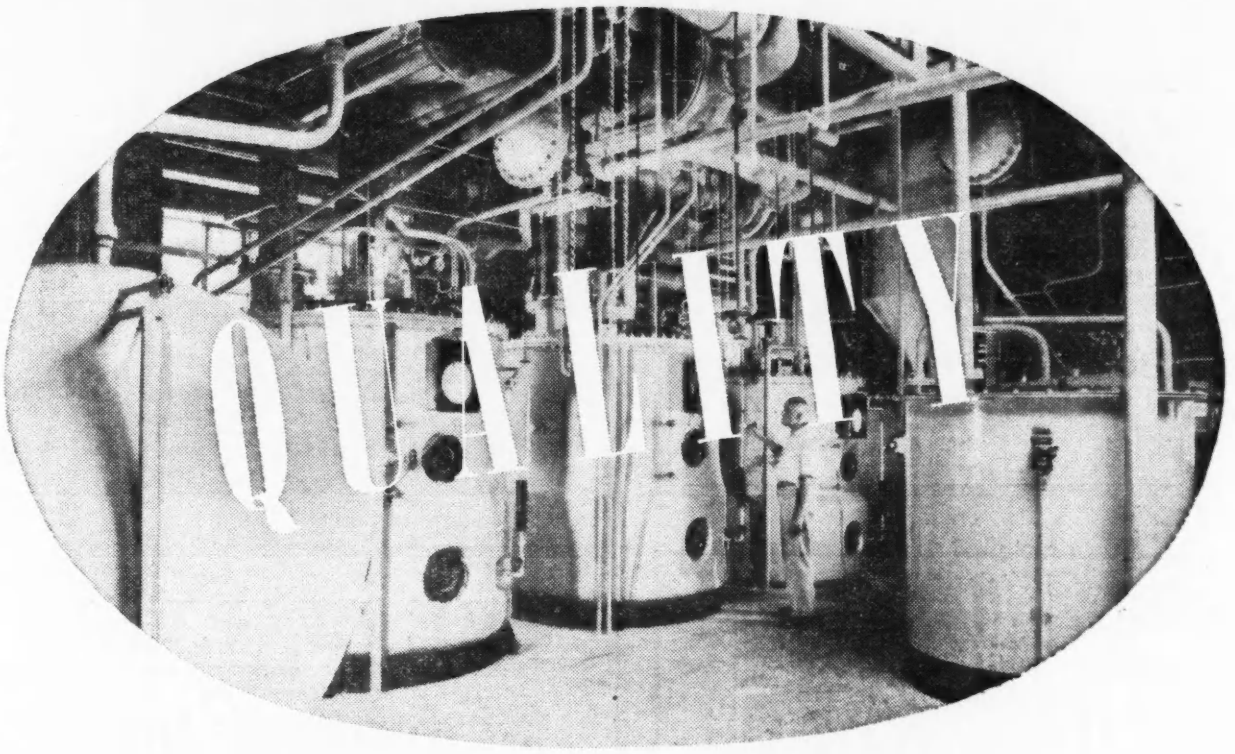

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Heavy Chemicals

Regular consumers of heavy tonnage chemicals have placed a substantial amount of contract business for 1948 during the last quarter of this year. Soda ash and caustic soda have commanded the most attention with buyers showing a tendency to increase rather than cutback commitments. In the smaller tonnage items, demand was not so brisk with many buyers satisfied to cover actual requirements or to take on material necessary to cover the first quarter. High producing costs have contributed strength to the price structure of the general market and the upward trend of values has offered no visible sign of culmination as the year draws to a close. Output while maintaining a high average has been subjected to periods of irregularity as a result of plant repairs and insufficient hydro-electric power in certain areas. Some improvement in the boxcar situation has taken place within the past two weeks, but the tankcar and steel drum shortage has continued serious with prospects of nearby relief none too favorable.

Slightly higher prices have been named for 1948 shipments of sodium metasilicate, orthosilicate, sesquisilicate and 40 degree silicate turbid. Sodium chlorate shows indications of advancing on January 1 and so does oxalic acid and some of the phosphorus compounds. Contracts of several of the fluorides are offered for delivery over next year at current prices. Nickel sulphate and other nickel based chemicals are also obtainable for future shipment at prevailing prices, but have attracted no unusual amount of buying interest. Agricultural demand for copper sulphate has increased materially since the turn of the month and a sizable tonnage has been booked for the 1948 season. Potassium chlorate has been heavily sold through January without price change. Chlorine has continued in short supply with producers facing a serious tankcar scarcity. Demand for zinc sulphate has increased substantially. The present buying movement is said to be principally for agricultural use. It is stated that the rayon mills and glue factories have also placed considerable business for 1948 in this chemical. Niter cake and salt cake have continued in definitely short supply with prices covering a wide range. The paper mills have been in the market for the latter material.

Paper production based on a percentage of six-day capacity was 107.4 percent for the week ending December 6, according to the American Pulp and Paper Association. This compares with 112.7 in the preceding week and 106.6 for the corresponding week in 1946.

Aluminum Chloride—Most of the current trading is said to be for actual requirements. Stocks have been maintained at a level to meet this demand promptly. Contracts for shipment over 1948 are offered at prevailing prices.

Aluminum Sulphate—Output has been keyed to industrial requirements over the last quarter. Shipments have been regular and stocks while not flush have been in line with demand. The market is described as steady but without quotable change in prices.

Ammonia Liquor—Production in October was placed at 4,376,630 pounds by the Bureau of Mines. Output in September was 4,072,136 pounds and in October, 1946, production registered 4,635,600 pounds. Production for ten months ending with October was 42,795,953 pounds, compared with 40,680,600 pounds for the corresponding period in 1946. Sales in October aggregated 3,831,876 pounds against 3,784,824 pounds in the preceding month. Sales for ten months ending October 31 were 39,529,361 pounds, compared with 38,351,700 pounds for the same time last year. Stocks on October 31 were 1,514,184 pounds, an increase of 19.5 percent over the 1,266,894 at the close of the preceding month.

Ammonium Bicarbonate—Stocks are meeting a steady consuming demand promptly with producers in a position to take on additional orders at current prices. A satisfactory volume of business is said to have been placed with the bakeries.

Chlorine—Shortage of tankcars has continued to cause irregularity in the movement of chlorine. Demand is active and sustained at a level exceeding output with the usual tight market prevailing.

Copper Sulphate—Steady improvement in buying interest has developed for agricultural use during the first half of December and a substantial tonnage has been booked for 1948 shipment. The stockpile has been pegged at about last month's level and is said to be the same or a little less than a year ago at this time. Shipments continue to go West to make up the shortage on the Pacific Coast but most producers are said to be shipping from production and not draining their reserves. Inquiry from Florida has kept considerably below seasonal expectations as a result of continued wet weather in the citrous area. Industrial demand is active and is holding above the normal level. Export business is slow with relatively few sales developing from an active inquiry. The market has developed a firmer undertone although no price changes are expected in the near future.

Nickel Sulphate—Supplies are relatively free at present with platers operating mostly for current requirements. Interest in future wants has not shown much activity although producers are offering 1948 contracts in this and most of the other nickel based chemicals at current prices.

Phosphorus Compounds—Producers have been absorbing the increased cost of manufacturing and packing these chemicals for a long time and it now looks as though an upward revision in prices is likely by the first of the year. While no announcements have been made to date, it appears as though some of the heavy tonnage items will be priced slightly higher and the smaller items will share the greatest advance.

Potash Caustic—Consuming demand active for home and export and enough above the producing level to maintain a tight supply condition in all the dry forms. Some liquid in tankcars only has been available for prompt shipment. Liquid in drums has remained scarce.

Potassium Carbonate—Buying conditions have shown no appreciable improvement during the past week. All forms have remained short of demand and shipments have been confined to contract accounts. So far the Connecticut valley tobacco planters have not shown interest and according to trade reports, there will be less used for agriculture in 1948 than in 1947. It is expected that the arrival of German potassium sulphate, about 12,000 tons, will ease the inquiry for carbonate for tobacco cultivation.

Potassium Chlorate—Buying interest has continued active and according to trade reports the match and pyrotecnic factories have taken care of the major part of production through January. Short stocks have contributed strength to the market situation although there is no indication of a price change at the present time.

Potassium Perchlorate—Some relaxation in the buying movement is reported and it appeared as though the fusees have taken on sufficient stock to satisfy requirements temporarily at least. No indication of a price revision could be noted.

Soda Ash—Slight improvement in distribution is reported during the first half of December as a result possibly by completion of repair work at a major producing plant. The improvement was said to favor light rather than dense ash. The easement in pressure for shipments which developed toward close of November appears to have given way to an increased demand in December. There has been no significant change in the fundamental market situation and no easement in buying conditions are expected until supply and demand develop a better state of balance.

Soda, Caustic—Industrial demand has shown no indication of relaxing. Consumers in most instances would like to increase their commitments for 1948 and seem ready to sign contracts for all the tonnage they can secure. There are no developments suggesting improvement in stocks, demand is considerably in excess of supply and the market position is exceedingly tight.

Sodium Chlorate — Development of a firmer tone is noted in this market. Maintenance of an unusually heavy consuming demand which has exceeded current output combined with gradually mounting produ-

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

None

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

General Chemicals

Last week.	Prev. week.	Last month.	Last year.
202.3	202.3	202.3	184.5

Acids

Last week.	Prev. week.	Last month.	Last year.
119.5	119.5	119.5	116.3

(For Current Prices see Page 9)

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cing costs has created a decidedly stronger situation which will probably result in an upward revision of prices by the close of the year.

Sodium Nitrite—Production has kept this market in a favorable supply condition. Requirements of the dyestuff, meat-packing and other consuming industries have been covered promptly and suppliers are in a position to take on additional orders where nearby shipment is essential.

Sodium Metasilicate — A new selling schedule for 1948 has been announced by one of the major producers. The carlot price for granular in bags will be 25c. per 100 pounds higher at $3.25. Smaller quantities are priced at $4.35 to $4.60 per 100 pounds. Barrels in carlots $3.65 per 100 pounds and l.c.l. $4.75 to $5 per 100 pounds. All prices are f.o.b. the works.

Sodium Orthosilicate—Higher prices have been named by a major producer for 1948 shipments. Hydrated flakes are quoted at $4.25 per 100 pounds in barrels, carlots and $5.50 to $5.75 per 100 pounds for smaller quantities f.o.b. the works.

Sodium Sesquisilicate—According to a major producer, the contract price for 1948 shipments will be $4.15 per 100 pounds for barrels, carlots and $5.40 to $5.65 for l.c.l. at the works.

Sodium Silicate—Turbid 40 degrees in drums is quoted slightly higher for 1948 shipment. The carlot price is $1 per 100 pounds. The l.c.l. range is from $1.25 to $1.35 per 100 pounds and tankcars are priced at $16 per ton. For 52-degree turbid the carlot price for drums is unchanged at $1.65 per 100 pounds. The l.c.l. price range extends from $1.90 to $2 per 100 pounds and tanks are priced at $29 per ton. All prices are f.o.b. the works.

Sodium Sulphide—No prices for 1948 have been announced to date. Production has not been able to meet the consuming demand and the market's supply condition at present is definitely tight.

Zinc Sulphate—In addition to a normal movement to the glue, rayon and other industrial consumers an appreciable increase in demand has developed for agricultural use. Inquiry has emanated from planters for treatment of zinc deficient soils. Stocks have been able to supply this demand except in crystals where a slight shortage was reported.

Acids

Hydrofluosilicic—Small lot sales have predominated in this market with the aggregate volume considered satisfactory. While demand has been principally for use as a metal cleanser, the ceramic, paint and varnish trades have also shown interest. Supply has continued adequate to meet domestic requirements promptly.

Hydrofluoric—Stocks have remained at a level sufficient to meet current requirements with the ceramic trade showing the most interest at present. There is also a good export inquiry that is unsatisfied owing to the difficulty in securing containers essential for foreign shipments.

Muriatic—Industrial demand has continued about flush with current production and the market shows a fair degree of balance. Demand is steady with shipments delayed slightly as a result of the prevailing shortage of containers.

Naphthenic—Suppliers have kept the essential requirements of contract consumers covered but there are no surplus stocks and the market has retained the same firm position previously noted.

Oxalic—There are more buyers than sellers of this acid and the supply situation is exceedingly tight. Producers have been unable to keep pace with contract schedules for the past year, meanwhile manufacturing costs have been mounting and it looks as though an upward revision sufficient to cover these increased costs will be made effective at the beginning of the new year. The market may be described as firm with a tendency to advance.

Sulphuric—This market has continued to feel the impact of an unusually heavy demand. Output is probably sufficient to meet this demand although the prevailing shortage of tankcars and glass carboys has made it difficult to move acid from works as promptly as specified in contract schedules. This condition has resulted in the creation of temporary shortages at some points. If the container scarcity is relieved,

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the market would likely be restored to a normal condition.

Non-Ferrous Metals

Copper—Conditions in copper have not changed much so far this month. According to trade reports, consumers have booked most of their requirements for January at current prices. Export business continued relatively quiet, with prices unchanged at 21½c. per pound f.a.s. New York. Copper scrap has developed a firmer tone.

Lead—Stocks of lead continue to be in short global supply, states the Department of Commerce in a forecast. The abnormally all-time high price has served to dislodge and bring out larger tonnages of secondary than newly-mined lead. When a balance between supply and demand for this now almost "rare" metal may be expected is conjectural. Never in history have there been so many world-wide exploration parties looking for deposits of this erstwhile base metal. While many are willing to concede that the current price for lead is inordinately high there appears to be every reason to believe that there will not be a substantial, if any, break in price during 1948.

Lead Scrap—Receipts and consumption of lead-base scrap and residues at secondary smelters in September increased 19 percent and 10 percent, respectively, as compared with August, according to the Bureau of Mines. Secondary smelters received 49,977 short tons of scrap and residues in September; treatment of all grades totaled 50,501 tons. Smelter stocks continued to decline for the sixth consecutive month. A gain of over 4,000 tons in receipts of battery plates was the largest single contributing factor to the increased total receipts in September, although, with the exception of type metal scrap, intake of all solid scrap items advanced. Soft lead receipts were 1,500 tons greater than in August, cable lead 700 tons, and hard lead scrap over 1,000 tons. Consumption of lead scrap was also greater in September in battery lead plates and all of the solid scrap classifications except type metals and tinny lead. Battery plates treated rose from 26,327 tons in August to 29,064 tons in September, soft lead scrap from 4,448 tons to 6,018 tons, and hard lead scrap from 1,221 tons to 2,040 tons. Month-end inventories of 77,629 tons consisted of 39,974 tons of battery plates, 10,941 tons of solid scrap metal and 26,714 tons of drosses and residues.

Quicksilver—The market for domestic metal turned firmer last week and reports showed a slight advance in quotations. However, the basic position locally remained unchanged with consumer needs being cared for promptly and on the basis of prices declared to be fully steady.

San Francisco, Dec. 11.—Quicksilver prices were increased here, with metal quoted between $80 and $82 per flask, f.o.b. this city. However, little metal was available.

Silver—Bureau of Mines states that the increase of 7 percent in output of silver in October to 2,951,569 ounces was due almost entirely to a sharp advance in production in Idaho, the largest silver-producing state, according to the Bureau of Mines, United States Department of the Interior. Idaho's production totaled more than a million ounces, was more than double that of the next largest producer, and was the greatest monthly total for the state since sometime in 1942, having gained 40% over September. The other feature in silver in October was Utah's drop of 17%. Output in Colorado fell 8% and in California 27%, whereas in Arizona and Nevada it increased 5% and 4% respectively. Montana, which ranks third in production, showed no change, as was also the case in the less important silver-producing state of New Mexico. Total output in September was 2,767,891 ounces. The official closing price of silver bullion in New York was 74⅝c. per ounce.

Silver Bullion Price Range

	Per ounce	
	New York	London
High	Mar. 6—86⅛c.	Jan. 2—55½d.
Low	June 20—59⅛c.	June 20—39d.

Tin Scrap—Smelters' September tin-base scrap receipts of 286 tons were the lowest recorded since the beginning of its Bureau of Mines' survey in January 1942. Decided drops were revealed in the two largest items, tin babbitt and tin scruff and dross, with smaller decreases in tin scrap and pewter receipts. Use of 431 tons during the month reduced stocks to 1,467 tons on September 30.

Zinc—Output of all grades of slab zinc from smelters in November was placed at 69,682 tons by the American Zinc Institute. October production was 71,745 tons. Stocks on November 30 were 69,166 tons, compared with 79,273 tons on October 31 and 173,337 tons at the beginning of the year.

Zinc Scrap—Domestic slab zinc consumption in July declined to the lowest level since February 1946, according to the Bureau of Mines. The largest decreases in consumption were in the manufacture of brass and bronze products, rolled zinc and zinc based alloys where 37, 17 and 15 percent respectively less was used. There was little change in the quantity of zinc consumed for galvanizing. Secondary slab zinc production at 12 operating secondary redistillation plants totaled 2,496 tons, including 328 tons of intermediate, 296 tons of brass special and 1,872 tons of prime western grade.

Trade Briefs

American Glass Company has elected Richard S. Berry treasurer.

E. I. duPont de Nemours & Co., Wilmington, Del., is building a new laboratory at El Monte, Calif.

Carbide & Carbon Chemical Corporation has started installation of a complete vertical transportation system in its new office building at South Charleston, W. Va.

Continental Can Company, New York, is constructing a new plant at Tonawanda, N. Y., for the production of fibre shipping drums. The plant is expected to be finished and in operation by August, 1948.

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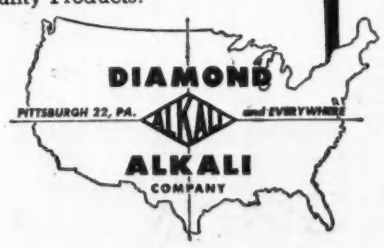

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CMRA Studies Fuel

—Continued from page 5

organic chemical industry except those parts concerned with coaltar derivatives."

Mr. Sullivan presented charts indicating the water-soluble organic chemicals which will result as by-products of the hydrocarbon synthesis process; the available production statistics for the commercial important products of the process, and the value of chemical products of ten plants and the percentage this production will constitute of the past production; past allocations of acetone, ethyl alcohol, isopropyl alcohol, normal butyl alcohol, amyl alcohols, and past consumption of acetic acid and acetic anhydride.

The final chart presented by Mr. Sullivan listed the companies that are at present the principal sources of the important chemical produced by the hydrocarbon synthesis process.

K. J. Nelson, of the Standard Oil Development Company, Linden, N. J., stated that although the petroleum industry is a major supplier of energy as liquid and gaseous fuels, and accordingly is interested in all process methods for manufacturing fuels, whether they are derived from crude oil or non-petroleum sources, the commercial adoption of the manufacture of substitute fuels to supplement gasoline made from crude oil must depend on sound economic reasons.

From a technical standpoint, he said, processes are currently available and they are being continually improved for manufacturing high quality gasoline from all such raw materials as natural gas, coal, tar sands or oil shales.

"Present developments are centered on the hydrocarbon synthesis process using natural gas as a raw material since under certain conditions this synthetic gasoline is competitive with gasoline produced from crude oil refining. The basic synthesis process using natural gas should not only make a substantial contribution to our oil resources, but it is also a step toward a further development of the coal hydrocarbon synthesis process."

Mr. Nelson presented a preliminary survey prepared by his firm on the relative cost of substitute fuels and gave potential supplies of gasoline from each of the raw materials named. He added that the survey must be considered approximate and subject to change as new technical developments are made and as the cost structure changes.

Chemical Marketing Research

Warren C. Hyer, director of industrial marketing research for the New York Research Corporation, Stamford, Conn., declared it had been his experience in five years of study in the chemical field that technical chemical analysis is needed in planning, in pilot study, in testing of a program, or in analysis or in drawing conclusions—but only as an aid to the program, not to direct it.

"We must not allow technical advice and detail to overshadow results," he said, "because we are studying the marketing functions, a social science not a physical science. We find that the most successful approach is the use of a technical man on the first one or two calls on an industry when dealing with technical products, as an adjunct to the services of a man trained in marketing.

"After one or two calls the technical man is removed from the field and used as adviser to the marketing man thereafter, and the marketing man can continue in that industry alone. We find that technical men talk about the things they know best. They talk all around the problems of markets and are off in a cloud of technical details, never quite returning to the problems at hand—volume, packaging, prices, and so forth. The marketing man is there to secure this data just before the discussion enters into the world of the abstract."

Mr. Hyer talked on actual marketing projects and techniques. He considered three possibilities—a chemical company wishes to determine its economic market within which it can meet all competition, freight rates included; a company has a new product and wishes to find new applications and new users, and a company wishes to review and evaluate present or potential distribution outlets that offer the best and most efficient coverage of their markets for an established product.

He said that in the first type of study the purchasing department or the production executives of the potential user is contacted. In the second, however, it is the research director who is contacted, he pointed out, and this type of study leans more heavily on the technical chemical staff than any other. The third possibility, he said, is strictly the work of the marketing department and this type of study requires technical chemical details of products and known applications.

"Today, the chemical companies are rapidly moving into the field of distribution, although some of them approach this field with the only type of personnel they have available, the technical man or salesman," according to Mr. Hyer. "Many companies have been fortunate in finding men flexible enough to successfully adapt themselves to their new tasks. However, top management has only too often refused to recognize their needs to do an adequate job."

Salesmen Can Be Used

Mr. Hyer declared that salesmen and technical service men can be used successfully if they are thoroughly trained as market research field interviewers; if they are paid extra for this work; if they are adequately supervised, and, finally, if they report to the marketing research department for this function.

He warned, however, that "if you are successful in training and developing these individuals, then you have also been successful in ruining a good salesman who cannot be replaced or untrained, and your operations economy has been very costly."

Speaker at the dinner meeting was Edward R. Dewey, manager of the market research department of the Air Reduction Company, New York, whose topic was "Cycles—A New Tool for Business Forecasting."

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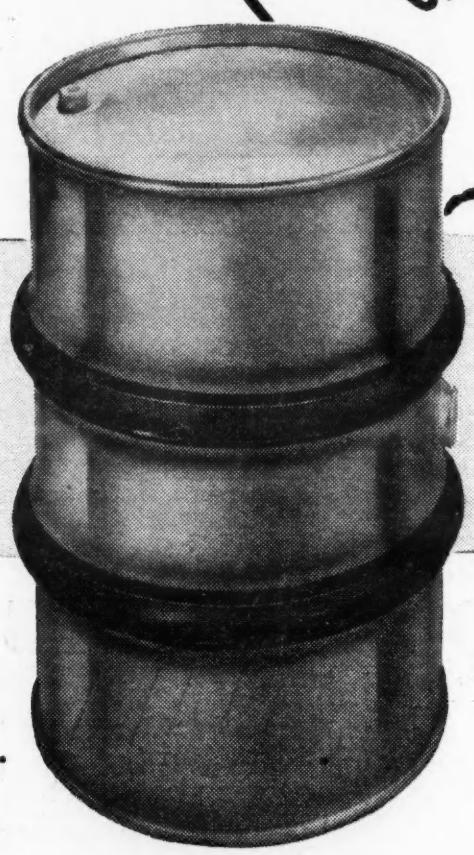

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General Aniline Shifts Easton Laboratory Staff

General Aniline & Film Corporation, New York, has made the following changes and promotions at its central research laboratory, Easton, Pa.:—

Drs. Donald L. Fuller, Carl Barnes and Fritz Max have been named associate directors of the laboratory. Dr. W. W. Williams has been transferred to the laboratory, as the azo dye section leader, from the Rensselaer dyestuff plant.

Drs. J. M. Lambert, G. T. Gross and H. Hemmendinger have been named group leaders in the physics department; Dr. G. H. Benbrook in the physical chemistry department, and Drs. C. W. Gould and S. Siggia in the analytical section.

Drs. J. A. Sprung and V. Tulagin have been named group leaders in the photography section, and Dr. W. O. Ney has been appointed group leader in the polymers division.

Wyandotte Assigns Two To Development Department

Dr. Marvin S. Carr and Russell A. Kaberg have been added to the staff of the development department of Wyandotte Chemical Corporation, Wyandotte, Mich., the former to act as assistant to the director of development and the latter as a field representative in connection with the organic chemicals being developed by the company.

Dr. Carr was formerly a research and development engineer of the electrochemicals department of E. I. du Pont de Nemours & Co., at Niagara Falls, N. Y. Mr. Kaberg formerly was a member of the development department of the organic division of Monsanto Chemical Company, St. Louis.

U.S. Testing Company Buys Blair Laboratory

The United States Testing Company, Hoboken, N. J., will acquire the Blair Laboratory, consulting chemist to the leather and tanning extract industries, New York, on January 1. The facilities of the laboratory will be transferred to Hoboken, with all current personnel being retained. The laboratory will be known as the Blair Laboratory division of the United States Testing Company.

Japan Entry Granted To More U.S. Firms

OPD Washington Bureau

The Department of Commerce has published the fifth list of American business firms who have been approved to enter Japan for trade purposes. Representatives of the firms may enter Japan between December 16 and December 30. Included on the list are the Great Lakes Carbon Corporation, the Nopco Chemical Company and the Hwa Mei Trading Corporation.

Linde Plans to Construct Little Rock Oxygen Plant

Linde Air Products Company, unit of Union Carbide & Carbon Corporation, plans to construct an oxygen filling station and acetylene producing plant at Little Rock, Ark. The plant, which will include a warehouse for distribution use by Union Carbide, is expected to commence operation in the Spring.

Pennsalt Advances Wilson

Pennsylvania Salt Manufacturing Company has appointed Vance N. Wilson safety coordinator. Mr. Wilson has been with Pennsalt since 1941, and has been serving as supervisor in charge of tankcars in the traffic department since June of last year.

Trade Briefs

National Container Corporation has purchased the corrugated paper products converting plant of Martin Brothers Box Company at Aurora, Ind.

B. F. Goodrich Company has completed arrangements for the sale of $10,000,000 of 2¾ percent first mortgage bonds to an insurance company.

Air Reduction Company, New York, will expand process engineering facilities for the purpose of reducing chemical manufacturing and distribution costs.

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Commerce Dept. Reviews

—Continued from page 3

United States. The nitrogen contained in this form alone for 1947-48 exceeds the combined quantities in all forms of United States manufacture for fertilizer prior to 1941.

The International Emergency Food Council (now the International Food Committee of the Council of FAO) which recommends allocations of world supplies of nitrogen fertilizers to the respective countries, has earmarked 187,000 tons of nitrogen to be imported by the United States. This nitrogen will come chiefly from Chile and Canada, with a small amount from Norway. The United States is scheduled to export to some twenty countries about 61,000 tons of commercial nitrogen (57,000 tons in solid material and 4,000 tons in solutions.) Net imports for the United States will therefore be 126,000 tons, about the same as last year.

Imports scheduled from Canada for 1947-48 will be somewhat smaller than last year, the reduction being principally in calcium cyanamide. Imports from Chile, on the other hand, will be approximately 20 percent larger. About 637,000 tons of nitrate of soda are expected this year, compared with 533,000 tons received in 1946-47. Also, importers have advised that scheduled imports will be delivered on a more timely basis; 200,000 tons of nitrate of soda are promised by December 31, 1947, compared with only 100,000 tons on the corresponding date a year ago.

The expected phosphate supply of 1,850,000 tons for fertilizer this year will be largest quantity ever available to United States agriculture. This is an increase of 105,000 tons or about 6 percent over last year. Most of the increase will come from the production of normal superphosphate. Production of concentrated superphosphate and wet base goods will be only slightly larger than production last year. Exports and imports of phosphates are relatively small.

The supply of potash for United States agriculture in 1947-48 is expected to be about 900,000 tons. This is an increase of about 5 percent over last year. At the same time it will be the smallest annual increase in potash supplies since 1943-44.

Of the 900,000 tons expected to be available, 865,000 will be produced from mineral deposits and lake brines in the United States; about 15,000 tons or a little more will be imported from Europe, and the balance will come from other potash sources in the United States.

The report noted that the capacity for potash production in Europe is very large, especially in eastern Germany, and it was stated that free movement of this potash in commerce would enable the needs of the United States to be met in full.

During the period from July 1, 1947, through June 30, 1948, the consumption of processed fertilizer in the United States, including Hawaii and Puerto Rico, will probably exceed 17,000,000 tons, containing around 3,600,000 tons of actual plant food. This will be a record quantity. Mixed fertilizers probably will continue to be somewhat more readily available to farmers than straight materials. The previous record consumption was last year when about 3,300,000 tons of plant food were used in the form of well over 15,000,000 tons of prepared fertilizers. From 1935 to 1939 the yearly average use of fertilizer was slightly less than 1,500,000 tons of plant food contained in yearly 7,500,000 tons of fertilizer.

Fertilizer 1948 Supplies

—Continued from page 3

said that his company had 760 carloads of potash in storage and any increase in output would augment this difficulty until boxcar supplies are more nearly adequate.

Despite this, he said, production expansions now planned by the industry should establish an output rate in 1948-49 of about 1,120,000 tons of K_2O, an increase 120,000 tons over the expected output in 1947-48.

A transmitted statement from Charles E. Heinrichs, of the Virginia-Carolina Chemical Company, predicted that nation-wide production of phosphate rock would reach 8,500,000 gross tons in 1947-48, and more than 10,000,000 tons in 1948-49.

James F. Doetsch, president of Chilean Nitrate Sales Corporation, told the committee that about 200,000 short tons of his country's allocation of 638,000 tons of Chilean nitrates for the 1947-48 season is expected to be shipped by December 31. Beginning January 1, he said, the monthly shipping schedule will be substantially increased so that the remainder will be shipped from Chile prior to June 30 and received in the United States in time for the season's crops.

Maurice Lockwood, president of the National Fertilizer Association, declared that 1947 commercial distribution of fertilizers was estimated at 16,500,000 tons and that, barring unpredictable road blocks, it may reach 18,000,000 tons in 1948. The heavy demand for fertilizer is influenced by high prices for farm products and increased exports, he added.

Mr. Lockwood concluded by stating that the early stepping up of nitrogen production within the United States will be best accomplished if the plants currently operated for Army Ordnance are made available to commercial operators so that they may soundly proceed to integrate the operation of these plants with nitric acid and graining units located near each of the ammonia fixation plants.

"Such a move," he said, "should prove a substantial saving to the taxpayers in the shortest practical time, and place these plants in a forehanded position to participate competitively in the domestic market when the Army export program slackens or terminates. Nationally, we should not wait longer to make this sound move."

Lt. Col. Albert S. Britt, chief of the general supply section of the civil affairs division of the Department of Army, reported that war-damaged fertilizer plants in occupied areas are being repaired as rapidly as possible so that the burden of furnishing fertilizer by the United States will be removed.

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Alkali Production Developing in Mexico

Production of caustic soda got under way about two months ago at the plant of Sosa Texcoco, S. A., at Ecatepec de Morelos, a suburb of Mexico City. Production of soda ash was started last July.

The Texcoco plant is reported to represent an investment of approximately $15,000,000 Mexican. Its designed productive capacity is 100 tons to 150 tons of 56-58 percent soda ash and 40 tons to 60 tons of 50 percent liquid caustic soda daily. It operates on brine obtained from large saline deposits in the basin of former lake Texcoco.

Fernando de Pelsmaeker, general manager of the Texcoco plant, says that the saline deposits on which it draws are a national reserve, reputed to be "practically inexhaustible." They are fed by numerous alkaline springs in the valley in which Mexico City is situated. Even though they were not fed, the available accumulation is so large, Mr Pelsmaeker says, that Mexico's total requirements of alkalies could be fully supplied from them for "at least one thousand years."

Chemical Workers Weekly Earnings Increased in Sept.

Weekly earnings of factory workers in chemical and related fields showed a light increase in September, as compared with August. A breakdown of the weekly earnings for the chemical and allied industries follows:—

	Weekly		
	Sept., 1947	August, 1947	July, 1947
Chemical and allied products	$51.84	$51.27	$51.00
Ammunition	52.69	44.96	50.12
Chemicals	57.98	57.44	57.73
Cottonseed oil	36.30	35.76	35.29
Drugs, medicines, insecticides	46.56	45.68	43.50
Explosives, safety fuses	57.30	57.08	56.17
Fertilizers	38.85	37.17	37.04
Paints and varnishes	58.56	58.56	58.37
Petroleum refining	64.75	65.12	64.12
Rayon, allied products	49.74	49.04	48.69
Soaps	62.05	59.04	56.30

General Mills Names Kyser Technical Head at Belmond

The chemical division of General Mills, Inc., Minneapolis, has advanced George H. Kyser from chief chemist to technical director of its Belmond, Ia., plant. Mr. Kyser has served as chief chemist for the past three years. Wilbur L. Taylor, formerly technical director, has been made technical adviser, and Guy LaLone, jr., has been appointed supervisor of the Belmond refineries.

Fort Pitt Chemical Co. Fined on Oil Use Charges

The United States District Court for the Western district of Pennsylvania has fined the Fort Pitt Chemical Company $750, after that company pleaded nolo contendere to a charge of violation of War Food Order 29, Amendment 10. The order concerned the use of cottonseed, peanut, soybean and corn oil, and the company was charged with using oil in excess of the quota established by the order.

Anesthesiologists Elect Dr. McCuskey President

The American Society of Anesthesiologists installed Dr. Charles F. McCuskey as president at its annual post-graduate assembly held recently in New York. Dr. McCuskey, who is director of anesthesia at the Los Angeles County hospital, succeeded Dr. Edward Tuohy, of Georgetown University.

Robert Gair Company Revises Container Sealing Booklet

The Robert Gair Company, shipping container manufacturer, New York, has published a completely revised edition of its booklet, "Sealing of Corrugated and Solid Fibre Containers." The booklet, printed on a new format, deals in separate sections with methods and techniques of sealing containers with adhesives, gummed paper tape, metal stitches and staples, and metal straps or wire. Copies may be obtained at no cost from the company at 155 East Forty-fourth street, New York 17.

Chemical Bureau Alumni Association Meets in New York

The Chemical Bureau Alumni Association, composed of former employees of the chemical bureau of the War Production Board, held an informal cocktail party recently at the Pennsylvania hotel, New York. Several former heads of the bureau were on hand to greet the members.

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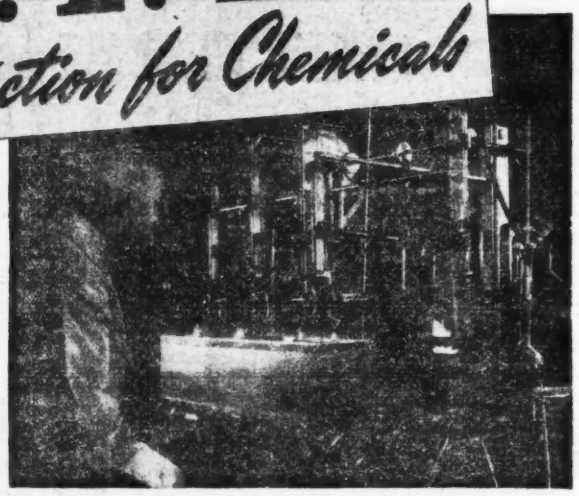

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Current Prices

—Continued from page 31

Z

Zein, bgs., 1,000 lbs., works	lb.	.28 - —
smaller lots works	lb.	.30 - —
Zinc acetate, tech., bbls., dms.	lb.	.20 - —
USP, bbls.	lb.	.26 - .27
kgs.	lb.	.27 - .29
Arsenite, bgs., c.l., frt. alld. E. of Rockies	lb.	No stocks
l.c.l., same basis	lb.	No stocks
Carbonate, tech., rubber makers', bbls., works	lb.	.10¾- .11¾
USP, precip., powd., bbls.	lb.	.35 - —
dms.	lb.	.40 - —
kgs.	lb.	.37 - —
Chloride, tech., fused, dms., c.l., works	100 lbs.	6.25 - —
l.c.l., works	100 lbs.	6.55 - —
gran., bbls., c.l., works	100 lbs.	7.00 - —
l.c.l., works	100 lbs.	7.40 - —
solution, 50%, dms., c.l., works	lb.	.0365- —
l.c.l., works	lb.	.0425- —
tanks, works	lb.	.0390- —
USP, gran., dms.	lb.	.30 - .3
jars	lb	.35 - .3
Chromate (see Yellow, zinc).		
Cyanide, kgs., works	lb.	.34 - .35
Diethyldithiocarbamate, dms., works	lb.	1.15 - —
Dust, bbls., c.l., dlvd.	lb.	.1250- .126
l.c.l., dlvd.	lb	.1275- .130
Fluoride, bbls., works	lb.	.18 - .19
Hydrosulphite, dms., works	lb	16 - —
Iodide, NF, jars	lb.	4.65 - —
Laurate, bbls.	lb.	.45 - .46
Linoleate, solid, 9½%, bbls.	lb	53¼- —
Metal slabs	lb.	.1100- —
E. St. Louis	lb.	10½- —
Naphthenate, liquid, 8% Zn, dms.	lb.	.19½- —
10% Zn, dms.	lb	24 - —
solid, 14% Zn, dms.	lb	31¾- —
Oxide, pigment, dom., acicular, bgs., c.l., ship't point, frt. alld.	lb.	.10 - —
l.c.l., works	lb.	10¼- —
American process, com'l lead-free, bgs., c.l., ship't point, frt. alld.	lb.	.10 - —
l.c.l., works	lb.	10¼- —
leaded, 5%, bgs., c.l., ship't point, frt. alld.	lb.	.10 - —
l.c.l., works	lb.	10¼- —
35%, bgs., c.l., ship't point, frt. alld.	lb.	.11⅝- —
l.c.l., works	lb.	.12 - —
50%, bgs., c.l., ship't point, frt. alld.	lb.	.12⅝- —
l.c.l., works	lb	12⅞- —
French process, com'l, lead-free, bgs., c.l., ship't point, frt. alld.	lb.	.12¼- —
l.c.l., works	lb.	12½- —
green, seal, bgs., c.l., ship't point, frt alld.	lb.	.11¾- —
l.c.l., works	lb.	.12 - —
red seal, bgs., c.l., ship't point, frt alld.	lb.	.11⅛- —
l.c.l., works	lb.	.11½- —
white seal, bgs., c.l., ship't point, frt alld.	lb.	.12¼- —
l.c.l., works	lb	12½- —
USP, ctns., c.l., ship't point, frt. alld.	lb.	.13¼- —
l.c.l. same basis	lb.	.13½- —

Zinc oxide Pac. coast prices ¾c. higher; bbls., prices ¼c. higher than bgs.

Resinate, fused, 9% Zn, powd., dms.	lb	19½- —
Silicofluoride, bbls., works	lb.	.11 - —
Stearate, ctns., 2,000 lbs.	lb.	.51 - —
smaller lots	lb.	.52 - —
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld.	100 lbs.	4.15 - —
l.c.l., same basis	100 lbs.	4.90 - —
flake, 25½% Zn., bgs., c.l., same l.c.l., same basis	100 lbs.	5.55 - —
powd., 36% Zn, bgs., c.l., same basis	100 lbs.	6.75 - —
l.c.l., same basis	100 lbs.	7.50 - —
Zinc sulphate in bbls., 40c higher		
Sulphide, pure, bgs., c.l., dlvd.	lb.	.10½- —
l.c.l., works	lb.	10¾- —
Barium pigment, bgs., c.l., dlvd.	lb.	.07½- —
l.c.l. works	lb.	07¾- —
Calcium pigment, bgs., c.l., dlvd.	lb.	.07½- —
l.c.l., works	lb.	.07¾- —
Luminescent pigment, frt. alld.	lb.	1.00 - 3.00
Magnesium pigment, bgs., c.l., dlvd	lb.	.07½- —
l.c.l., dlvd.	lb.	.07¾- —

Zinc sulphide and pigment, Pac. coast prices ¾c. higher; bbl. prices ¼c. higher than bgs.

Sulphocarbolate, NF, gran., bbls., dms.	lb.	.26 - .30
Yellow (see Yellow, zinc)		
Zinc-ammonium chloride, bbls., c.l., works	100 lbs.	7.15 - —
l.c.l., works	100 lbs.	7.55 - —
Zinc-cadmium sulphide, fluorescent, ctns., frt. alld.	lb.	2.00 - 2.80
Zinc-formaldehyde sulphoxalate, basic, dms., works, frt. alld.	lb.	.17 - —
normal, dms., works, frt. alld.	lb.	35 - —
Zinc-iron oxide pigment, bgs., c.l. dlvd.	lb.	.08½- —
Pac. coast	lb.	.09¼- —
l.c.l., dlvd. E. of Rockies	lb.	.09 - —
Pac. coast	lb.	.09¾- —
Zircon (see Zirconium silicate).		
Zirconium acetate, solution, bbls., works	lb.	.25½- —
Hydride, ctns., works	lb.	7.00 - —
Oxide, 88%, 92%, grd., bbls. or bgs., any quantity, works	lb.	.25 - —
98½-99%, white, grd., bbls. or bgs., works	lb.	1.50 - —
lump, electric-fused, bgs., c.l., works	lb.	.44 - —
5 tons, works	lb.	.44½- —
2,000 lbs. and less, works	lb.	.45 - .48
milled, electric-fused, bgs., c.l., works	lb.	.59 - —
5 tons, works	lb.	.59½- —
2,000 lbs. and less, works	lb.	.60 - .63
Oxychloride, cryst., ctns., 5 tons, works	lb.	.29½- —
Silicate, granular, bgs., c.l., works,	lb.	.03¾- —
5 tons, works	lb.	.04 - —
2,000 lbs. and less, works	lb.	.04¼- .04¾
milled, bgs., c.l., works	lb.	.04¾- —
5 tons, works	lb.	.05¼- —
2,000 lbs., works	lb.	.05¾- .06¾
refined, bgs., c.l., works	lb.	.11 - —
5 tons, works	lb.	.11½- —
2,000 lbs. and less, works	lb.	.12 - .16
Sulphate, basic, cake, ctns., c.l., works	lb.	.37½- —
5 tons, works	lb.	.38 - —
2,000 lbs. and less, works	lb.	.38½- .39

Synthetic Resins

The customary monthly listing of prices for synthetic resins and other branded paint materials was printed in the Dec. 1 issue of OPD.

Du Pont Announces 1948-49 Fellowships

E. I. duPont de Nemours & Co., Wilmington, Del., has announced that it is awarding eighty-one post-graduate and post-doctoral fellowships to forty-seven universities for the 1948-49 academic year. This is an increase of six fellowships and one university, compared with last year's awards.

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Agricultural Chemicals

Stocks of all chemical nitrogenates are scarce and it looks as though the supply will become shorter after the turn of the year. Demand has been sustained at an unusually high level, too high for current production to satisfy. Ammonium nitrate is exceedingly scarce at present with exports possibly keeping stocks down for domestic use. There seems to be a buyer for every ton of ammonium sulphate regardless of the high current rate of production. Cyanamide output has been cutback by the limitation of power in the Niagara area where allocation of hydro-electric service has been in effect in some sections. Potash distribution has shown improvement since the beginning of the month owing to the ability of producers to secure more boxcars and a similar condition has taken place in phosphate rock although it is admitted the general transportation is far from normal. Superphosphate has continued tight here and most other parts of the country with the exception of the Southeast where an accumulation of supplies in Florida was occasioned by unfavorable weather which delayed the planting season. The Midwest is said to be definitely short of phosphate at present.

Menhaden fish meal registered another price advance last week under an active demand, limited stocks and reports of unfavorable fishing operations off the coasts of the Carolinas and southward. Dried blood advanced in the West with closing prices materially above the local parity. Bone meal and animal tankage were steady and unchanged.

New synthetic insecticides are constantly reaching the market and are enthusiastically described by producers, with some favorable comment from the Department of Agriculture also.

Nitrogenates

Ammonium Nitrate—Stocks for domestic use are short with demand exceeding production by a wide margin. It is stated that a large part of current output is being shipped against export account. Canadian production is not at capacity levels and it is said that relatively little of this material is reaching the United States at present.

Ammonium Sulphate—By-product output from coke in October amounted to 147,482,118 pounds, a gain of 7.9 percent over the 136,680,671 pounds in September, according to the Bureau of Mines. Production from January 1 through October is placed at 1,348,168,269 pounds, compared with 1,054,686,000 pounds for the corresponding period in 1946. Sales in October registered 138,306,678 pounds, against 133,095,780 pounds in the preceding month. Total sales from January 1 through October were 1,344,881,307 pounds, compared with 1,027,934,700 pounds for the same time last year. Stocks on October 31 were 62,207,967 pounds against 53,755,977 pounds on September 30 and 91,232,861 pounds at the close of October, 1946. Market position firm, with no easement in buying conditions in sight at the present time.

Bone Meal—Offerings for immediate shipment limited as a result of the sold ahead condition of output. There has been a persistent buying movement in both the raw and steamed grades throughout the last quarter, with both feeding and fertilizer trades showing interest.

Castor Pomace—Continued absence of offerings has kept the open market in a quiet condition. Shipments against existing contracts accounted for the current movement.

Cyanamide—Production of this material has been restricted as a result of insufficient power to maintain output. It is stated that power is being rationed in the Niagara area and that "brown outs" in some sections have been frequent. The entire production of cyanamide is under contract and there is no open market for this material.

Dried Blood—Sales at Chicago were reported at $10.50 per unit of ammonia with others asking $10.75 at the close of the week. This is considerably above the local market, where $9.75 was the prevailing selling level. Limited offerings gave the impression that production was well sold for the balance of the year.

Hoof Meal — Offerings of this material were exceedingly scarce during the past week. The fertilizer trade has been a buyer when stocks were available. Production has never been on a large scale and there were no stocks on the market at the close of the period.

Fish Meal—Higher prices have been established for both grades of menhaden fish meal. The 60 percent variety was priced at $155.00 per ton in bags and the 65 percent at $165.00 per ton. The market has registered an advance of $30.00 per ton since July 1. Offerings were limited, with more buyers than sellers. It was stated that unfavorable weather off the Carolina coast has seriously interfered with fishing operations.

Sodium Nitrate—No easement in buying conditions. Demand is increasing and is keeping far enough ahead of supplies to maintain a tight market position. Chilean nitrate continues to arrive as per schedule.

Tankage—Limited stocks have restricted trading. Occasional sales were reported at $10.50 per unit of ammonia both here and at Chicago with the general market firm at this level. Arrivals of 1,484 greaves cakes from Buenos Aires were noted during the week. Dry rendered ground tankage, 50 percent protein, was priced at $6.25 to $6.50 per unit of protein at production plant by Los Angeles sellers.

Market Trends

Prices Advanced

Dried blood, Chicago, 25c. per unit of ammonia.
Fish meal, $5 per ton.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
72.5	72.5	72.5	72.1

(For Current Prices see Page 9)

Phosphates

Phosphate Rock—Demand has continued heavy and it is stated that domestic requirements, exclusive of export, can take every ton produced at the present time. The boxcar situation has shown improvement so far this month but is considerably below normal. This has resulted in a better movement to acidulators. The market is described as firm and tight.

Superphosphate—Stocks short in this area with demand exceeding supply. Some improvement reported in the movement in the Southest where heavy rains in Florida necessitated some delay in shipments and resulted in late planting. The supply of triple-superphosphate has remained definitely short in all sections.

Potashes

Maintenance of improvement in the supply of boxcars since the turn of the month has permitted an appreciable improvement in the distribution of potash. Producers have made progress in satisfying requirements and warehouse stocks are gradually being liquidated. Demand has continued exceedingly heavy and in excess of current production, leaving the supply situation definitely tight.

Cottonseed Hull Ash—Available stocks are exceedingly scarce at present and it is expected there will not be much of an output this year. The market is nominally quoted at $1.50 per unit. To date, tobacco planters who use this material have not entered the market of calcined carbonate of potash and it is probable that these interests have been represented in the buying of the imported German potassium sulphate.

Insecticides

One of the new insecticides that will be introduced to the market is o,o-diethyl o-p-nitrophenyl thiophosphate which has been recorded in the trademark division of the United States Patent Office as "parathion" to preempt its use as a trade mark. The Bureau of Entomology and Plant Quarantine authorizes that the common name will be used by the bureau and its publications. Field tests with this compound in 1947 have indicated that it will probably be useful for the control of many pests of agricultural crops and possibly of some pests affecting man and animals. From experimental tests, it is indicated that it does not produce plant injury and is particularly efficient in the destruction of aphids on fruits and vegetables, the codling moth, red spider, corn borer and many other destructive insects.

Sulphur and Pyrites

Broad industrial demand combined with the agricultural inquiry has resulted in a heavy distribution of native sulphur. Improved transporation facilities have permitted a regular flow of sulphur from adequate stocks maintained by producers at the mines. Pyrites remained steady at the former price range. No additional imports of Spanish material were noted at this port.

For Late Market Developments, See Page 4

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Coaltar Chemicals

Steel operations last week, for the second week in succession, were scheduled at 97.7 percent of ingot capacity. Coaltar aromatic solvents were in strong demand in a tightening market situation. Benzol remained stable at current price levels. Toluol and xylol were quoted in a 1½ cent spread with the bulk of material being quoted at the higher level.

Increased costs of coal and steel mill operations, together with advanced labor costs and freight rates in the coaltar industry were expected to have an effect on prices of several basic commodities at the beginning of the year. Coaltar and creosote were likely to be advanced for the next quarter because increased costs can no longer be absorbed. Supplies of coaltar remained short of the unprecedented demand, while creosote was in fair balance with demand. Cresols were still tight under strong demand from the synthetic resin and other industries, while cresylic acid was quite short. Imports remained low and were being disposed of at prices not representing the true market.

Naphthalene was still under heavy pressure of demand with supplies insufficient to take care of the needs of industry. Naphthalene derivatives, particularly phthalic anhydride and dyestuffs intermediates were accordingly affected critically. Phenol was being consumed as rapidly as it could be produced and manufacturers were operating against a heavy backlog of orders. Prices were stable and not expected to change before the end of the year.

Heavy demand for pyridine continued. Maleic anhydride was essentially unchanged from the conditions of short supply and huge pent-up demand which has characterized the market for several months. New producing units were not as yet in operation, but the demand was so great that full capacity for the new plants has been already spoken for by contracting consumers. Phthalic anhydride continued short under pressure of demand from the synthetic resin, dyestuffs, plasticizer, and explosive industries. Ortho and para anisidin were in short supply due to heavy demands from the dye industry. Orthoanisidin, along with metachloroanilin, orthonitroanilin and parachloroanilin were advanced in price. Parachloroanilin advanced 5 cents per pound while the others advanced 10 cents. A rise of some 7 cents per pound was effected on orthochloroanilin. These rises refer to spot material, with contract material due to similarily advance at a later date.

Steel operations were set last week again at 97.7 percent, the same as the previous week, making equivalent outputs of steel ingots and castings for each week 1,710,000 net tons. One month ago the rate was 96.9 percent equivalent to 1,695,700 net tons and one year ago the scheduled operations were set at 1,230,100 tons.

Basic Products

Benzol—The market situation on benzol was unchanged, remaining in a tightening supply position as a result of heavy pressure of demand. Prices held firm at their current levels, and were expected to hold at these levels for the balance of the year. According to the Bureau of Mines, coke oven operators produced during October 1,103,515 gallons of motor grade benzol bringing the total from this source to 13,893,701 gallons for the first ten months of this year. October production of motor benzol was 27.7 percent over September production. Nitration benzol production amounting to 3,558,275 gallons was up 17.8 percent over September and brought the ten month total on this item to 34,625,075 gallons as compared with 29,513,100 gallons during the same period last year. Industrial pure benzol production from this source also went up some 15.4 percent during October as compared with September, making the total ten-month production of this item 81,251,933 gallons for this year as compared with only 56,462,500 gallons during the same period last year.

Despite the very substantial gains in production of benzol this year over last year, supplies are unbalanced with demand by virtue of the increasing demand stemming from all consumer sources.

Coaltar—The price structure on coaltar remained stable and was likely to continue so until the end of the year. Increasing coal and steel operating costs and advancing labor and freight rates have been accumulating to a point where it is quite likely that prices on coaltar will have to be advanced at the new year. Demand continued heavy in the face of insufficient supplies as the coaltar chemical industry was operating under heavier pressure than during the war years.

According to the Bureau of Mines, coaltar production during October amounted to 64,081,916 gallons of crude, bringing the total production of coke oven operators for the first ten months of this year up to 608,929,412 gallons as compared with 490,453,700 during the same period last year.

Creosote—Supplies of creosote were in general in fair balance with production, as demand continued strong, and domestic production was proceeding normally. Prices were firm at their current levels and no change before the first of the year was expected. However, in view of the increased material and operating costs prevailing in the steel and coaltar chemical industries, plus increased labor and freight rates, there was good reason to believe that creosote oil prices would be forced upward at the new year. Creosote production by coke oven operators during the first ten months of this year amounted to 32,807,410 gallons as compared with 24,440,800 gallons during the same period last year.

Cresol—The tight market situation prevailing in this item continued unabated, supplies fell far short of the demand, and prices were holding firm. Technical grades for use in synthetic resins continued in strong demand, and the fractionated pure ortho, meta, and para materials were notably short.

Cresylic Acid—Cresylic acid prices were riding firmly at levels established in July, and certain to continue to the year's end. Imports continued quite low, and domestic production was far short of demand and had to be spread thinly across the wide expanse of domestic consumer end uses.

Naphthalene—Naphthalene production so far this year has been very considerably ahead of last year. For example, during the first ten months of this production of 70 to 79 degree crude by coke oven operators was 66,072,544 pounds as compared with 48,821,100 pounds during the same period last year. Likewise, comparative figures for the same period on crude melting at less than 70 degrees stood at 13,804,455 pounds against 8,994,600 pounds. Production increases by tar distillers who produce the largest proportion of napthalene also advanced considerably this year over last year. Despite these advances, demand from expanded industrial operations was such as to make the naphthalene supply quite critical. Steel operations this year have operated at average percentages of capacity well near the limit, and next year's operations could not hope to bring the added poundage of naphthalene over this year's production that this year showed over last. Very appreciable expansion of steel producing facilities were in the planning and construction stage, but not likely to soon become effective in the near future so far as coaltar and its derivatives are concerned.

Phenol—The closing weeks of 1947 saw a continued tightening of the phenol market as effecting all types of pure and modified phenolic materials. The price picture was expected to hold firm for the balance of this year.

The scarcity of phenol under widespread demand created a corresponding tight market situation with respect to the various

Coaltar By-Products

Estimates of by-product cokeoven operations in the week ended December 6 indicate the following output of by-products from that source:—

Ammonia liquid NH_3	lbs.	1,206,595
Ammonia sulphate	lbs.	31,244,460
Benzol	gals.	3,937,310
Coaltar	gals.	14,606,150
Creosote oil	gals.	812,864
Naphthalene, crude	lbs.	1,930,552
Phenol	lbs.	228,618
Toluol	gals.	787,462
Xylol	gals.	177,814

Market Trends

Prices Advanced

Metachloroanilin, 10c. per lb.
Orthoanisidin, 10c. per lb.
Orthochloroanilin, 7c. per lb.
Orthonitroanilin, 10c. per lb.
Parachloroanilin, 5c. per lb.

Prices Reduced

None

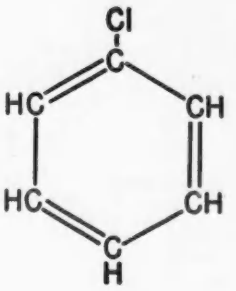
Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
138.9	138.9	138.9	130.8

(For Current Prices see Page 9)

For Late Market Developments, See Page 4



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Pyridine — The market position of this item was characterized by a continuing shortage of the technical grade and total supplies were insufficient to go around. Pricewise, the market was currently stable. Crude pyridine base products from all sources were produced in October in the amount of 55,233 gallons, while production of the 2 degree refined product totaled 7,936 gallons, according to data released by the Bureau of Mines. Crude pyridine production this year showed a marked increase during the first ten months of this year as compared to last year. This year's figures were set at 547,135 gallons.

Toluol—The market position of this item tightened another notch last week as pressure of demand continued to increase, and the potential heavier demands of aviation gasoline cut into the potential aromatic solvents available from petroleum sources. Solvent and chemical end uses, meanwhile were on the increase and established uses were expanding.

According to the Bureau of Mines, nitration grade of toluol by coke oven operators was on the increase, with October up 13.4 percent over September, amounting to 2,093,760 gallons. This brought the total nitration material produced from this source during the first ten months of this year to 16,954,737 gallons as compared with 9,924,300 gallons during the same period last year. October production of industrial pure and all other grades were off by 9.5 percent for industrial pure, and 1 percent for all other grades from this source. All across the board, sales were up very considerably and stocks dropped heavily from the previous month.

Xylol—The price structure of xylol continued in the range of 25c. to 26½c. per gallon with the great bulk of total production being quoted at the higher level. The market remained in its tighter supply position and the situation was due to become worse before it gets better. While the increasing demand on available supplies was general, one of the factors most seriously affecting it was the government's greater demand for aviation gasoline of high aromaticity, which would cut into available xylol production for solvent use. Prices were expected to hold firm at their current levels until the year end, but the picture after that was somewhat speculative. Crude oil prices were advanced another 50 cents per barrel, and while some quarters felt that in view of the recent 1½c. per gallon advance in petroleum source material that the recent crude advance as it affects aromatic solvents might be absorbed, it was by no means certain that such a policy could, or would be feasible.

Production during October of all grades of xylol by coke oven operators was reported by the Bureau of Mines as 636,667 gallons, bringing the total for the first ten months of this year from this source to 5,961,310 gallons as compared with 4,957,800 gallons last year.

Intermediates

Maleic Anhydride — The demand for maleic anhydride continued far in excess of available supplies with end uses already established expanding as rapidly as available material would allow, and potential consumption was particularly high. New production facilities were as yet not in operation, but demand had booked virtually all of the output of new plants. Prices meanwhile were unchanged.

Metachloroanilin — The market on this item was one of short supply in relation to demand and this situation was reported as unlikely to ease in the near future. Increasing raw material and labor costs has made price revisions necessary, and accordingly, an upward adjustment of 10 cents per pound had to be made. Spot prices were accordingly set at 75 cents per pound in drums at the factory, with contract prices set to advance at the first of the year.

Ortho-anisidin—Demand for this material continued strong and supplies in the face of this demand were generally considered as tight. By virtue of increasing costs, prices were advanced 10 cents per pound, bringing current quotations on spot material to 80 cents per pound in barrels. Used as a component of azo dyes and in the manufacture of dyestuffs intermediates, the currently heavy demand for this product was likely to be sustained.

Orthochloroanilin—The market situation on this item was characterized by the usual shortage situation prevailing among chlorinated intermediates. Under strong demand as an intermediate in the manufacture of dyestuffs there was no apparent sign of the market easing in the near future. Prices, meanwhile, were advanced on spot material to 60 cents per pound in drums.

Orthochlorophenol—This material under strong demand from various quarters for the manufacture of dyestuffs and the synthesis of other organic products was definitely tight. It was, of course, affected by

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the current phenol shortage and in addition subject to the critically tight chlorine situation arising in large part from the lack of tankcars for chlorine shipment.

Orthodichlorobenzene—This material was reported to be in still short supply last week, due mainly to the shortage of chlorine. Prices were firm and no change in the near future was anticipated.

Orthonitro-anilin — Prices on orthonitroanilin were advanced to new levels on spot material with contract prices slated to advance at a later date to the new level. The new prices are 53 cents per pound in lots of less than 10,000 pounds and 50 cents per pound on lots of over 10,000 pounds. Demand from the dyestuffs and pharmaceutical manufacturers was such that supplies were considered as tight, and considerable pressure was exerted on available production equipment.

Orthonitrobiphenyl—The market on this item was fairly easy under limited demand as a dyestuffs intermediate, as a plasticizer in certain special cases, and as an alternate for substituted nitrobenzenes in organic syntheses. Prices meanwhile were unchanged.

Para-anisidin—Demand for this material as an intermediate in various organic syntheses and as a component in the manufacture of azo dyestuffs was reported as strong, with supplies generally described as tight. Prices at the moment were unchanged.

Parachloroanilin — Supplies of this item were short in a tight market created by the shortage of chlorine and strong demand for the product from the dyestuffs industry. Prices on spot material were quoted at 70 cents per pound following a 5c. price advance.

Paranitrochlorobenzene — This dyestuffs intermediate was in strong demand and production was under pressure of a backlog of orders. Prices were firm.

Phthalic Anhydride — The market in phthalic anhydride continued one of short supplies under heavy demand from synthetic resin manufacturers, plasticizer producers, and from the dyestuffs and explosive industries. Production this year was considerably above last year, but demands from expanded industrial operations made the market virtually as tight as during the war years. Available phthalic anhydride was essentially tied to naphthalene from which the great bulk of this material is manufactured, and despite additional plant facilities due to become effective next year, the total quantity produced will be limited by the naphthalene situation. Prices meanwhile held firm, and up to last week showed every indication of staying at current levels.

N.N.E. Textile Chemists Reelect Linberg Chairman

The Northern New England section of the American Association of Textile Chemists and Colorists reelected George O. Linberg, sales manager of the textile chemicals department of Monsanto Chemical Company, chairman at a recent meeting. Other officers elected were:—

Vice-chairman, Frank O'Neil, Pacific Mills; secretary, Azel Mack, Dexter Chemical Company; treasurer, Martin Gurley, Gustavus J. Esselen Company; national councillors, Edward S. Chapin, David X. Klein, Walter Hamburger and Wendell Lever, and sectional councillors, Arthur C. Merrill, jr., Ralph Hale and Delbert Ray.

Textile Technology Institute Adds Shelburne to Staff

The Institute of Textile Technology, Charlottesville, Va., has added Victor B. Shelburne, jr., to its staff to work in the division of chemical engineering. Mr. Shelburne was previously supervisor chemist at the Buffalo, N. Y., refinery of Spencer Kellogg & Son, and for two years during the war was with the chemical warfare service at Huntsville Arsenal.

Trade Briefs

Vanadium Corporation of America has appointed D. G. Bowser general manager of operations.

General Dyestuff Corporation has published a new circular, entitled "G-485-Nekal A".

New Bedford Textile Institute, New Bedford, Mass., is making plans for the observance of its fiftieth anniversary sometime next May.

Rayonier, Inc., producer of wood cellulose, has arranged financing of $20,000,000 through the Metropolitan Life Insurance Company and a group of West Coast banks.

Youngstown Sheet & Tube Company, Youngstown, Ohio, plans to expand coke and iron production at its Indiana Harbor plant. East Chicago, Ind., by building seventy-five new coke ovens and enlarging its No. 1 blast furnace, next spring.

N.Y. Textile Chemists Review Convention Papers

A review of three technical papers which the New York section presented at the Chicago convention of the American Association of Textile Chemists and Colorists featured the section's meeting held at the Swiss Chalet, Rochelle Park, N. J., on December 5.

The paper on "Dying and Fastness Characteristics of Aqueous Chlorinated Wool," which won the third prize at the convention covered experimental work in which a standard eight and three-quarter ounce flannel was used for six different chlorination treatments. One piece of the fabric was untreated, two were given alkaline treatments, and three were given acid treatments in the process of chlorination. Roughly, 90 percent of the chlorine was picked up in less than two minutes in treating the fabric at pH ranges of two to six. The acid fabrics picked up the dye much faster than the alkaline treated fabrics, it was stated.

The effect of dying procedures was sought in a study of nylon dyeing by Louis I. Fidell, George L. Royer and Henry E. Millson of the Calco Chemical Division, American Cyanamid Company. Nylon was dyed with acetate, dispersed, direct, chrome, and metalized dyes, using acetic, formic and sulphuric acids to attain low pH values down to one. The paper presented evidence that the use of acids to accelerate the rate of dyeing had virtually no more harmful effects on tensil strength and elongation of the fibers than did distilled water.

A third paper discussed a practical laboratory method of the evaluation of detergents for wool scouring processes, in which laboratory results could be made to simulate large scale plant operations in a continuous process system. This paper was presented by E. A. Leonard and A. R. Winch of Alexander Smith & Sons Carpet Company.

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Textile and Leather Chemicals

Sumac was reported to have eased somewhat, and prices dropped $5 per ton on ground material and $10 on leaves. Meanwhile the extract advanced fractionally per pound for the stainless liquid. Asking prices on wattle bark in the range of $70 per ton were met with cool interest, while the current range of quotations was two or more dollars above and below this figure.

Potato starch remained scarce under strong demand at high prices. This situation was due for some relief by the government's currently arranging a diversion program whereby Maine starch producers will be able to make from 500 to 600 tons a month from No. 2 potatoes. Tapioca flour had few offerings from Brazil, and there was little interest in the American market due to buyer resistance to the high level of current prices. There was some trading in New York in sago flour at prices one-half cent under the previous nominal price. Egg albumen supplies were practically unavailable, while demand for blood albumin continued light. Egg albumen advanced nominally 10c. per pound.

Cotton crop was estimated at 11,694,000 bales as of December 1, by the Bureau of Agricultural Economics. This is 189,000 bales above the November forecast. The indicated 1947 crop is about three million bales larger than last year and about 700,000 bales below the 10-year 1936-45 average. Lint yield per acre computed at 265.4 pounds is 30.1 pounds above that harvested last year and 14.8 pounds above the 10-year average.

Chemicals

Bichromates — Supplies of bichromates were continuing short under pressure of heavy demand from all users ranging from pigment manufacture and tanning to water treatment. Prices held firm at their current levels, and were expected to remain at these levels through the first quarter of next year. Demand for bichromates domestically was so heavy as to allow very little for export. Export demand, on the other hand was quite heavy and outside the normal market, there was considerable export trading at excessively high prices.

Sizing Materials

Albumen, Egg—With Supplies practically unavailable, this market was entirely nominal for flake albumen at $3 to $3.50 per pound. Trading was inactive, though inquiry was fairly active for small lots. Stocks of technical also were smaller and prices were firm at $1.25 to $1.40 per pound, according to quality and quantity.

Albumin, Blood—Demand was reported light and mainly for actual requirements. Supplies were adequate to cover demand and were well held at former levels.

Dextrin, Corn—Active demand for delivery against contracts continued to absorb the capacity production. Some processors were two weeks behind in deliveries. Market was firm at unchanged quotations.

Egg Yolk—This market was firm, and limited supplies were well held at current levels. Trading was spotty and was reported at $1.25 to $1.40 per pound, depending upon quantity.

Sago Flour—Some trading in New York was reported at 9 cents per pound, and the nominal price range remained at 9 to 9½ cents as to quantity.

Starch, Corn—Withdrawals against contracts were in active request and with the output sold well ahead, the market remained firm. Prices were without change. Visible corn supply was increased 599,000 bushels and totaled 10,974,000 bushels for the week ended December 5, compared with 16,974,000 bushels, a year ago, according to the Chicago Board of Trade.

Starch, Potato—The price structure of potato starch held firm in the range of 10½ to 11 cents per pound. Additional supplies from Maine were soon to be expected as a result of a diversion program which the government was said to be arranging in which starch will be manufactured from No. 2 potatoes. The effect of the arrangements was expected to amount to 500 to 600 additional tons a month which would approximately double the present Maine production. Such operations in recent weeks has been roughly 15 percent of plant capacity. This was expected to influence prices somewhat in the near future.

Tapioca Flour—Medium grade material was currently quoted in the range of 9¾ to 11 cents per pound. There were few offers from Brazil, and little interest was shown in the market as a result of buyer resistance to current price levels.

Market Trends

Prices Advanced

Egg albumen, 10c. per lb.
Sumac extract, liquid, stainless, ½c. per lb.

Prices Reduced

Sumac, ground, $5 per ton.
leaves, $10 per ton.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
396.3	387.1	378.7	294.1

(For Current Prices see Page 9)

Tanning Materials

Chestnut Extract—A stable price structure prevailed in this market last week, and the market situation was one of continued light trading with supplies adequate to meet all calls.

Divi-Divi—Business in this item continued spotty, with trading light and characteristic of the market in recent weeks. Prices held firm at their current levels.

Gambier—Plantation grade material was nominally quoted at 21 to 23 cents per pound ex dock, in a quiet market. Crude and extract were unavailable, and cubes were virtually off the market. No immediate change in prices was contemplated.

Logwood Extract—This market remained essentially unchanged last week in so far as ample supply and fair demand are concerned. Prices held firm at the levels established December 1.

Mangrove Bark—Imported last week were some 4,824 bags of mangrove bark, principally from Zanzibar. Prices on East Africa material of 38 percent tannin held firm in the range of $60 to $62 per ton, ex dock.

Myrobalans—Limited consuming inquiry characterized this market, while quotations on the primary markets were steady and unchanged. High grade J-1 material was currently quoted at $54 to $55 per ton, while J-2 material could be had at $45 to $46 per ton, ex dock.

Quercitron Extract—Extract prices were firm at the new level established at the first of the month, and trading was reported to be generally quiet.

Quebracho Extract—Argentine production of quebracho extract was reported to be suffering from a bottleneck in bags for shipment as a result of insufficient supplies of high quality burlap. Experimental use of triple burlap bags introduced by the Argentine government was reported to be disappointing. However, a reported arrival of top quality burlap from India was expected to relieve the situation, and enable producers to resume normal operations early in January. Resumption of operations of several Paraguayan factories which had been dislocated during the recent civil war, was reported. Private exporters continued to offer quebracho extract at $172 per kilogram for cold water soluble material and $162 to $165 per kilogram for material soluble in hot water. Some 20 percent of the exports were still being reserved for the Argentine Institute of Foreign Trade, which pays producers the f.o.b. price they receive from their customers. Clarified material of 64 percent tannin was currently being quoted at 9½ c. per pound. The market was quiet with little trading, and demand was such that the effect of the short period of low producer operations mentioned above was likely to be of no practical significance on the American market from a supply standpoint.

Sumac—This market was reported to have eased somewhat from a supply point of view. In line with this eased supply picture, prices were reported to have fallen off to a point where ground material was currently being quoted at $80 per long ton and leaves were quoted at $85 per long ton. Stainless sumac extract, on the other hand, was advanced in price effective December 1 by ½ c. per pound, with the other grades remaining at their old levels.

Tara Powder—The pharmaceutical trade continued to be the prime consumer of this material since the high price structure which has been maintained in recent weeks is beyond the range of other industrial users. Prices were nominally quoted at $225 per long ton ex dock.

Valonia—Beards and cups were quoted at unchanged prices in a market where trading was quiet.

Wattle—Merchantable bark was currently being quoted in the range of $67 to $69 per ton. Some dealers were asking as high as $72 for fair average quality, but others were finding little interest in offers made at $70. Current quotations on extract having 35 percent tannin, were in the range of 7½c. per pound in barrels and 6¾c. in tanks.

For Late Market Developments, See Page 4

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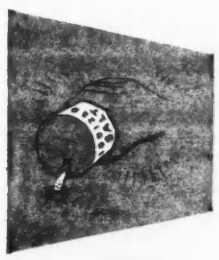

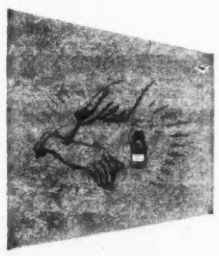

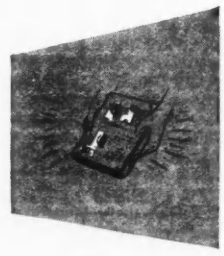

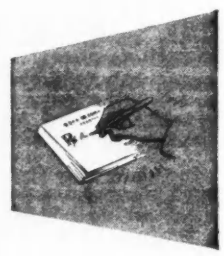

Baker's Chemicals

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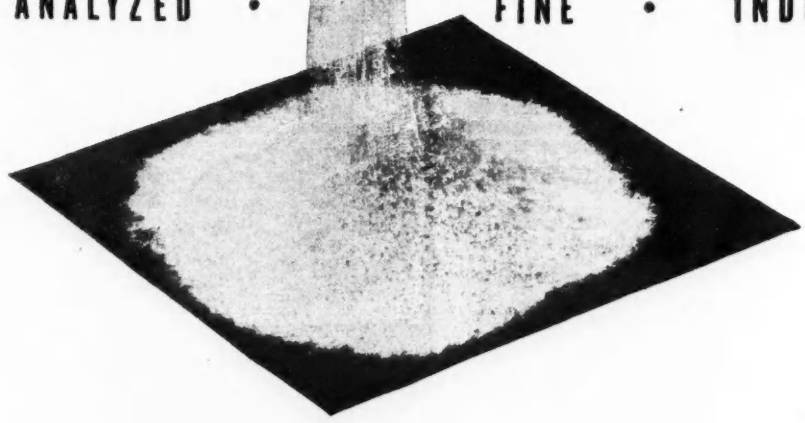

Drugs and Fine Chemicals

A natural contraction of activity in many drugs and fine chemicals was noted last week. The contraction was concerned mainly with transactions involving prompt delivery orders and, in keeping with the usual practice at the end of most years, prompt delivery buying was reduced to a size dictated by imperative needs that could not be delayed in placement until after the turn of the year.

This meant that the rather large number of drugs not sold on contract moved more slowly and in smaller quantities during the past week. Against this was the situation in many fine chemicals that are sold on contract and in which their producers were very active in lining up business for the first quarter of 1948, if not for the entire year. A deal of such activity was current in the market last week and producers of some article have taken the step of announcing now the prices at which they will deliver goods, come January 1 and forward.

Alcohol prices have developed a spread, varying about 3c. per gallon according to producer. This meant last week that the December 1 prices of one large producer were established at levels showing not the 9c. rise of other manufacturers, but a 6c. upping of the schedule. It was also noted that prices were being quoted on a delivered basis east of the Mississippi river rather than f.o.b. works.

One more cinchona derivative has been restored to a firm price basis, being quinine valerate. Many of the cinchona derivatives were still unavailable so far as the domestic manufacturers were concerned. Quinidine continued to be subject to allocation control from which quinine salts have been removed because supply has increased.

Milk powder quotations spread rather more widely than customary. Demand remained excellent and supplies held tight. Offerings of more distant future delivery material were mainly ignored by buyers. Menthol was lower again in a market dull as to demand and ample in the matter of supplies. Stocks of methanol should rise to ample proportions when new production comes into full swing.

Acetaldehyde—The market has become rather quiet as the year draws toward an end, but the fundamental position was reported as steady with prices subject to full support by the prospects for business, come the turn of the year.

Acetamide—Stability prevailed in the market which, however quiet at the moment, held fair promise of good trade after the turn of the year. Supplies were available in conservative quantities.

Acetanilide—So far as producers have indicated their intentions to this time, it seems likely that the new year will start with unchanged but very firm prices as quoted by the leading producers. There continued to be some shading of first hand prices, but this, so far as could be learned, was restricted to distributors.

Acetone—Immediate demand has been curtailed some among distributors by the seasonal character of their trade. With the producers, however, signs point to consumption that will care for current production during the first quarter of the new year.

Acid, Arsenous—Trading was along jobbing lines and was typical of the slower movement common to trading toward the end of the year. Most consumers of the U.S.P. article were believed to be carrying fair sized reserves, caring for their requirements fairly well ahead of consuming needs.

Acid, Boric—With an advance in prices scheduled for commercial and U.S.P. crystals, come January 1, the immediate information does not suggest any change in the rest of the schedule on powdered and granular material.

Acid, Crotonic—The prevailing quotation on Canadian acid was reported firm on the basis of 35c. per pound at the works under the influence of a steady requirement and stable flow of goods.

Acid, Mandelic—The market was firm at the late advance and although demand continued to be routine, the undertone of the market was firm on the basis of the present cost of production.

Acid Salicylic—No surplus of supply exists as the year comes near to its end. Stocks do little more than meet the current requirements of manufacturing consumers on a conservative basis and the basic position of the market is one of some strength regardless of the temporary slowing down in placing prompt delivery business on new orders.

Acid, Tartaric—The market was apparently steady on the lower price basis recently established. The recent trend in raw material costs could be reckoned a strengthening potential to the acid market but producers look for stability to prevail in the immediate future.

Alcohol—Prices for all kinds of alcohol showed a range last week, the difference between sellers' views amounting usually to 3c. per gallon when one producer announced prices to prevail as of December 1. Quotations named on tankcars ranged as follows:—CD12, 93½c. to 96c. per gallon; SDI, 93c. to 96c.; SD2B, 93c. to 96½c.; SD23H, 91c. to 94½c.; special solvent, 96c. to 96½c.; ethyl, tax paid, 18.03 to 18.06. The quotations were on a delivered basis to points east of the Mississippi river.

Aloin—The development of a steadier undertone in the raw material market found reflection in the unfolding of firmer undertones in aloin prices on the basis of the reduction recently made to establish the minimum market at $3.75 per pound. Demand for aloin was routine and less active in keeping with the season.

Ammonia Biborate—Supplies have not indicated their price intentions, come January 1. However, they have intimated that the present schedule on borax would be extended and was likely to hold unless further advances be made in freight rates.

Amyl Acetate—The market held strong. Prompt demand was not very active, possibly because of seasonal influences, but indications covering probable trade during the first quarter of the new year suggested that scarcity would continue to dominate the market.

Antipyrene—The market was very firm at the advance that established prices on the basis of $2.35 to $2.45 per pound, according to quantity. Buyers continued to complain of shortage in their supplies and the outlook for a substantially larger manufacture early next year was not good. Demand was expected to remain filled only on a basis that amounted to careful allocation of available supplies.

Argols—Prices were very firm at $32 to $34 per 100 kilos, basis of 100 percent purity. These were prices prevailing at shipment ports and were a part of the recently upward movement of quotations at the various foreign sources of supply.

Atropine—The steady price position of raw material has kept atropine quotations equally steady. Also, supplies, while seemingly adequate, were not abundant and conditions were far from those prevailing when numerous sellers competed for the rather limited amount of consuming requirements common to the material.

Bromides—With spot prices on ammonium, calcium, potassium and sodium bromides already higher, and with contract prices on January 1 scheduled to become those now quoted for spot goods, the market appeared to be set for a steady price position during the first quarter of the year. So far as it has been possible to ascertain, the quotations on bromide itself are not scheduled for a change and one quarter last week offered the view that conditions were such as to make establishment of higher quotations on that raw material a rather difficult matter.

Brucine—The market was firm but not overly active as to orders during the past week. Reserves were conservative in most directions and firm replacement costs were expected to result in present quotations being maintained.

Butyl Acetate, Alcohol—The market appeared to be set at least for the balance of this year and there were some intimations that producers would be able to hold quotations to a stable position for some time into 1948 unless conditions not now foreseen should develop. It was also expected that consumption would continue in excellent volume.

Castor Oil—Prices continued in an apparently stable position on the spot and the movement into consumption was in fair

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Antipyrene, 20c. per lb.
Castor beans, $3 per long ton.

Prices Reduced

Alcohol, denatured, 3c. per gal.
Menthol, 10c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
255.1	255.5	256.4	249.6

(For Current Prices see Page 9)

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volume. Raw material declines appeared to have stopped at the source. Buyers' views on the price for beans at Brazilian ports was $170 per long ton last week but local agents of shippers said that they considered the nominal price to be $175 in Brazil, which would represent sellers' views. With this split in buyers and sellers views, trading in castor beans has all but stopped.

Arrivals of castor beans last week totaled 51,579 bags, or 7,716,850 pounds, comparing with 80,406 bags, or 12,060,900 pounds in the previous week, and 5,866 bags, or 879,900 pounds in the corresponding week 1946.

Total arrivals this year since January 1 became 1,569,810 bags, or 235,471,500 pounds, against 1,230,082 bags, or 184,512,300 pounds during the corresponding period in 1946.

Cocoa Butter—It was all but impossible to secure anything from domestic sources of supply and material arriving here from Brazil rarely appeared on the open market, having been sold prior to arrival. A strictly nominal market prevailed locally.

Codliver Oil—Demand for spot goods had undergone a seasonal decline coincident with the ending of the year. However, the market continued firm to strong in undertone and conditions to govern after the turn of the year were considered sufficiently strong to probably result in fully supported prices in this and foreign markets. Arrivals were 250 drums from Iceland, and 450 barrels from Norway.

Creosote—Movement of all kinds of medicinal creosote in its several forms was said to be very good and in keeping with the season of the year. Prices were firm in the absence of much competition between suppliers notwithstanding the fair stocks of goods now available in most quarters.

Dibutyl Phthalate—One important supplier has reconfirmed prices quoted by him for a substantial period of time. Another direction advanced quotations recently, making the spread wide between minimum and maximum quotations.

Emetine Hydrochloride—Firmness in raw material costs has been a major factor in holding quotations on this article to a very steady position. Demand was also steady but entirely routine.

Epsom Salt—Spot prices have been advanced 25c. per 100 pounds and contract quotations on January 1 will also be advanced in the same amount. In bags, technical goods in carlots now stand at $2.30 per 100 pounds; less than carlots, 2.65; U.S.P., carlots, 2.50; less than carlots, 3. Leading producers no longer offered this article in barrel and keg packings.

Fishliver Oils—Supplies were reported to be on the tight side. Offerings were limited and on the basis of present price views at the source, little trading has prevailed.

Los Angeles, Dec. 11.—Little trading was reported. Supplies are off, with offerings negligible. Vitamin A oils, including the 1894 conver-

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sion factor in all potencies, was as follows:—8,000 to 15,000 unit oil, 16c. per million units; 15,000 to 30,000, 22c.; 30,000 to 60,000, 22c. to 25c.; 60,000 to 100,000, 27c.; 100,000 to 150,000, 27c. to 32c.; 150,000 to 200,000, 34c.; concentrates, 500,000, 35c. to 36c., and a million units, 38c. to 41c.

Glycerin—Some prominent refiners of glycerin have gone abroad for substantial quantities of raw material. During the past week, 85,536 pounds of what was probably crude glycerin reached here from Havana, Cuba. In the previous week, 172,497 pounds had arrived from the same origin. Refiners who also make soap and hence recover crude glycerin but who also buy crude glycerin in other directions have been faced with what has amounted to a blocked market; at least, some who recover glycerin but do not refine have been disposed to withhold goods from the market in expectation of getting still higher prices than the levels currently prevailing on spot. However, the downward turn of tallow-prices last week may change that aspect of affairs. During the war, some large quantities of crude came here from the Far East but of late, reports of arriving merchandise have rarely included glycerin. The domestic production of refined and other grades continued to run to high totals and the market remained as strong as it recently had become.

Menthol—Rather more than plentiful supply and somewhat less than active demand combined to bring about a further shading of spot prices on natural material. By the close of last week, prices were down to $8.80 to $9 per pound and tendency to shade further prevailed.

Methanol—When the total plant capacity of the country swings into operation, it is expected that stocks of synthetic material will become readily available and such cramping of supplies as has existed will be eliminated. Meanwhile, prospective demand continued to make high totals and to take current production promptly. Leading producers of synthetic have not yet given notice of any change in their schedule, come January 1.

Milk Powder—Minimum quotations held unchanged for the most part but the range widened as some suppliers increased their asking prices considerably. The result was that skimmed milk roller process powder was quoted 15c. to 16¼c. per pound; spray process, 16c. to 17½c.; whole milk powder, roller process, 41¼c. to 41¾c.; spray process, 41½c. to 44½c. Stocks, or at least offerings, of whole milk powder were very small in this locality. Supplies of all kinds of powder continued short and demand held good. Some carlot sales of spray process skimmed milk powder were reported made at 17c. to 17½c. per pound on the spot; roller, 16¼c. Offerings of futures, March through May, failed to move some 12,000,000 pounds so offered, probably to the Commodity Credit Corporation.

Potassium Borate—So far as yet disclosed by the producer, no change in quotations is scheduled for January 1—which fitted in well with the situation as concerned borax.

Potassium Citrate—Consumer requirements contracted in keeping with the usually slower flow of new orders to producers when the end of the year is in sight. The basic position of the material was reported as being steady and normal trade was a reasonable forecast for the early portion of 1948.

Quinine—Valerate was being offered after an extended period in which no quotations had been made. The present market was $1.12½c. per ounce in quantities of 100 ounces. The only quinine derivatives of cinchona bark now being offered by domestic manufacturers were alkaloid, bisulphate, dihydrochloride, hydrobromide, hydrochloride, phosphate, sulphate; also quinine-urea hydrochloride.

Saccharin—The market was in firm position and entirely well set to enter the new year. However, no oversupply of the article existed nor was in sight despite the fact that leading producers have an excellent output and care for consumers in fair shape.

Silver Nitrate—The schedule on this material has remained stable since the last change that came early in November. It has been a period of price stability in silver bullion. Consumption has continued to involve substantial quantities of nitrate, adding to the general firmness of the market.

Argentina Establishes New Narcotics Control System

The government of Argentina has established a new system of control over the acquisition, distribution and resale of narcotic drugs, to take effect immediately under the direction of the Department of Public Health.

The official controlling entity is the Drogueria Central, which will acquire the narcotic drugs after obtaining a prior import permit from the narcotic control section of the department. The Drogueria Central is also charged with the responsibility of distribution of narcotics and will establish regulations covering application, maximum dosages and dispensing of the drugs.

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Penicillin Assaying Rules Issued

OPD Washington Bureau

Regulations covering the certification and assaying of crystalline penicillin and epinephrine in oil, a new penicillin product, were issued last week by the Food and Drug Administration. The new product, which is for intramuscular use only, will be packed in clear glass containers with a potency of 300,000 units per milliliter, and carry a life potency of eighteen months.

Dutch View of Quinine

—Continued from page 32

we once killed unwanted pigs or burned wheat. The actual facts are fantastic in view of the implications of the charge. In the past, when more bark was available than could be sold, due to overproduction or failure of an expected malaria epidemic to materialize, the Dutch offered to the League of Nations Malaria Commission all the residue, for several years, at half price for distribution among impoverished malaria sufferers. The offer was never accepted.

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Hospital Pharmacists Elect W. Arthur Purdum President

The American Society of Hospital Pharmacists, by mail ballot, has elected W. Arthur Purdum, of Baltimore, Md., to be next president of the organization. Other officers chosen were: vice-president-elect, Geraldine Stockert, Long Branch, N. J.; secretary-elect, J. R. Cathcart, West Chester, Pa., and treasurer-elect, Sister Jeanne Marie, Youngstown, Ohio. The officers will be installed at the annual meeting, to be held in San Francisco on August 8.

France-Belgian Congo Trade Agreement Signed

France and the Belgium-Luxembourg Economic Union have signed a trade pact whereby the Belgian Congo will deliver copper, tin, copal, castor oil seeds, ivory and hides to France, and, in turn, will import from France various commodities, including pharmaceutical products, according to "Aneta" News agency.

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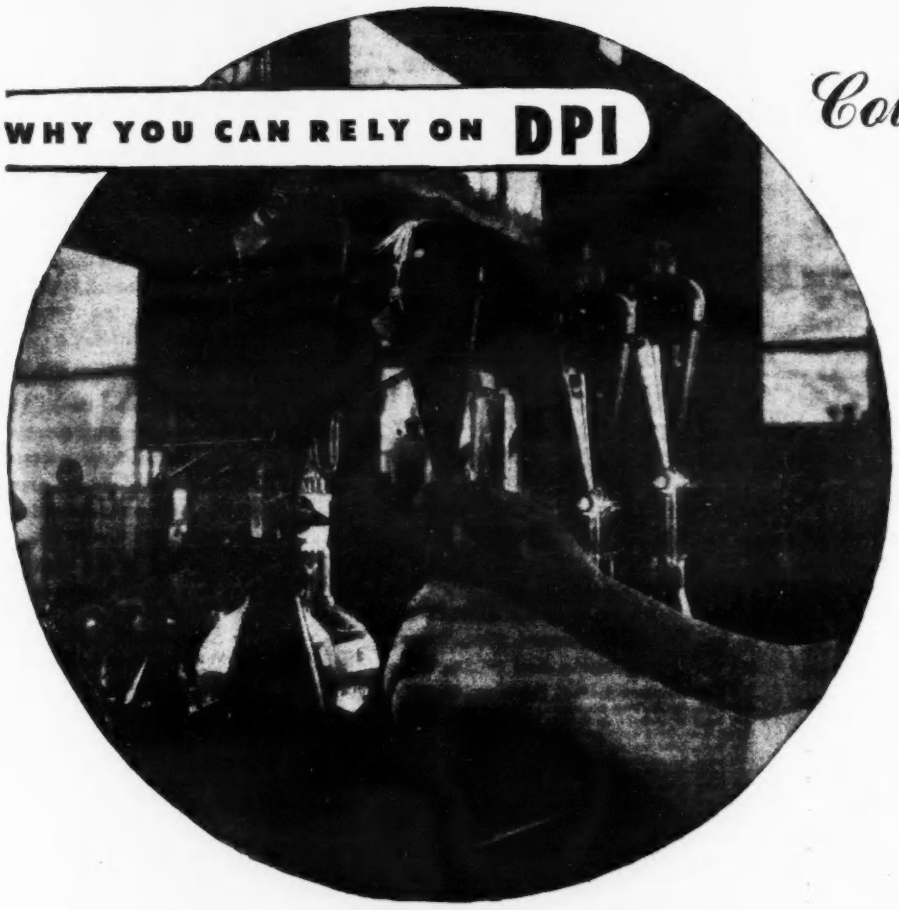

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**Physicochemical Assay of Vitamin A* by Norris Dean Embree, Industrial & Engineering Chemistry, Analytical Edition, Vol. 13, Page 144, March 15, 1941. Copies on request.

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1 dm, Polak & Schwarz, Coastal Viking, Port au Prince
ANISE—70 bgs, Intra Mar Shipping Corp, Habana, Barcelona
100 cs, Elena Eleska, Monte Castelo, Barcelona
ANNATTO SEED—275 bgs, Santa Luisa, Puna
ANTIMONY ORE—928 bgs, National Lead Co, Santa Louisa, Antofagasta
530 bgs, Associated Metals & Minerals Co, Santa Louisa, Antofagasta
428 bgs, J W Hampton, jr, & Co, Santa Luisa, Callao
ARGOLS—600 bgs, Tartaric Raw Materials, Inc, San Miquel, Lisbon
350 bgs, Stauffer Chemical Co, Bartlesville Victory, Catania
ARTISTS MATERIALS—18 cs, Winsor & Newton, Vasconia, London
28 cs, Winsor & Newton, Vardulia, London
7 cs, Vardulia, London
ASBESTOS—1,243 bgs, Union Asphalt & Rubber Co, Argonaut, Lourenco Marques
BALATA—54 bgs, H A Astlett & Co, Santa Rosa, Cartagena
34 bgs, Wessel, Duval & Co, Santa Rosa, Cartagena
320 bls, Wessel, Duval & Co, Alcoa Cavalier, Trinidad
37 bls, Royal Bank of Canada, Alcoa Cavalier, Trinidad
97 bls, H A Astlett & Co, Alcoa Cavalier, Trinidad
BARK, MEDICINAL—216 bls, S B Penick & Co, Santa Luisa, San Antonio
BEES WAX—16 bgs, Curacao Trading Co, Dorothy, Sanchez
20 bgs, Lenape Trading Co, Loide Canada, Recife
38 bgs, Will & Baumer Candle Co, Bresle, Port au Prince
3 bgs, W R Grace & Co, Santa Catalina, Valparaiso
60 bgs, W R Grace & Co, Santa Catalina, Talcahuano
93 blocks, Explorer, Aden
36 bgs, Geck Trading Corp, Agwiking, Ciudad Trujillo
25 bgs, E A Bromund Co, Agwiking, Ciudad Trujillo
BELLADONNA LEAVES—4 bls, S B Penick & Co, Pacific Victory, Alexandria
BERGAMOT OIL—28 half cs, Bartlesville Victory, Oran
23 cs, Ungerer & Co, Sobieski, Genoa
11 cs, Geo Lueders & Co, Sobieski, Genoa
3 cs, A G Cailler, Sobieski, Genoa
7 cs, Fritzsche Bros, Sobieski, Genoa
6 cs, Givaudan-Delawanna, Pacific Victory, Genoa
BISMUTH, REFINED—118 cs, Cerro de Pasco Copper Corp, Santa Luisa, Callao
BITUMEN—1,218 dms, Standard Oil Co N J, J A Mowinckel, Aruba
BONE—2,934 bgs, Wilson & Co, Wideawake, Buenos Aires
GLUE—400 bgs, Manufacturers Trust Co, Kim, Antwerp
BUTTONLAC—100 bgs, Gillespie-Rogers-Pyatt Co, Explorer, Calcutta
106 bgs, Schwab Bros Corp, Explorer, Calcutta
195 bgs, Vardulia, London
75 bgs, Cape Elizabeth, Calcutta
CANARY SEED—513 bgs, John A Bruce Seed Co, Wideawake, Buenos Aires
CARAWAY OIL—6 cks, Magnus, Mabee & Reynard, New Amsterdam, Rotterdam
CARAWAY SEED—150 bgs, Levy & Levis Co, Jefferson City, Rotterdam
100 bgs, Jefferson City, Rotterdam
400 bgs, Holland Colombo Trade Society, New Amsterdam, Rotterdam
100 bgs, Levy & Levis Co, Southland, Rotterdam
100 bgs, A G Dunn, Southland, Rotterdam
100 bgs, Louis Furth, Inc, Southland, Rotterdam
25 bgs, Wagner Bros Seed Store, Southland, Rotterdam
CARNAUBA WAX—55 bgs, Wessel, Duval & Co, Loide Canada, Fortaleza
55 bgs, E A Bromund Co, Loide Canada, Fortaleza
55 bgs, Stein, Hall & Co, Loide Canada, Fortaleza
CASEIN—100 bgs, Paul & Stein Bros, Wideawake, Buenos Aires
CASTOR BEANS—847 bgs, Spencer Kellogg & Sons, Loide Canada, Bahia
11,023 bgs, Baker Castor Oil Co, Loide Canada, Bahia
3,330 bgs, Bunge Corp, Loide Canada, Recife
6,474 bgs, Spencer Kellogg & Sons, Loide Canada, Recife
16,114 bgs, Baker Castor Oil Co, Loide Canada, Recife
1,694 bgs, Baker Castor Oil Co, Eidanger, Santos
10,294 bgs, Spencer Kellogg & Sons, Eidanger, Santos
864 bgs, Guaranty Trust Co, Bresle, Port au Prince
617 bgs, Baker Castor Oil Co, Bresle, Port de Paix
384 bgs, Baker Castor Oil Co, Coastal Viking, Port de Paix
CASTOR OIL—150 dms, Brazil Oiticica, Inc, Loide Canada, Fortaleza
CEDARWOOD OIL—5 dms, Lo Curto & Funk, Robin Locksley, Mombasa
CELERY SEED—60 bgs, Vinchand, Panachend & Co, President Polk, Bombay
CERAMIC COLORS—2 cs, B F Drakenfeld & Co, American Clipper, Liverpool
2 cs, Croxall Chemical & Supply Co, American Clipper, Liverpool
CHALK—2,460 bgs, Whittaker, Clark & Daniels, Vasconia, London
750 tons, Taintor Trading Co, Vardulia, London
CHEMICALS—27 dms, Distillation Products, Inc, American Importer, Manchester
CHICLE GUM—147 bls, L A Dreyfus & Co, Alcoa Cavalier, Trinidad
260 bgs, L A Dreyfus & Co, Gordias, Curacao
CHINA CLAY—3 bgs, All Rite Trading Co, Jefferson City, Antwerp
CINCHONA PRODUCTS—113 cs, Guaranty Trust Co, New Amsterdam, Rotterdam
CINNAMON LEAF OIL—22 dms, Chase National Bank, Robin Locksley, Mombasa
CINNAMON—160 bls, Harrison & Crossfield, Explorer, Colombo
CITRONELLA OIL—28 dms, Dodge & Olcott Co, President Polk, Singapore
20 dms, President Polk, Singapore
5 dms, Dodge & Olcott Co, Cape Elizabeth, Galle
5 dms, Fritzsche Bros, Cape Elizabeth, Galle
5 dms, Joensson & Cross, Cape Elizabeth, Galle
2 dms, Dodge & Olcott Co, Coastal Viking, Port au Prince
CLOVES—160 bls, L A Champon & Co, Argonaut, Zanzibar
1,000 bls, D Hecht & Co, Robin Locksley, Zanzibar
300 bls, Geo Uhe Co, Robin Locksley, Zanzibar
200 bls, A G Dunn, Robin Locksley, Zanzibar
70 bls, Joensson & Cross, Robin Locksley, Zanzibar
COBALT FINES—77 cks, African Metal Corp, Houffalize, Antwerp
METAL—200 cks, African Metal Corp, Houffalize, Antwerp
1 cs, African Metal Corp, Houffalize, Antwerp
OXIDE—215 cks, African Metal Corp, Hoffalize, Antwerp
COCA LEAVES—(Correction)—In the November 8 issue, Monsanto Chemical Co was credited with 122 bales; should have read Maywood Chemical Works, Santa Maria, Salaverry
COD OIL—310 dms, Scandinavian Oil Co, Fort Townsend, St Johns
CODLIVER OIL—250 dms, Lunham & Reeve, Salmon Knot, Reykjavik
400 bbls, Peder Devold Oil Co, Triersfjord, Bergen
COLOMBO ROOT—15 bgs, E Miltenberg, Robin Locksley, Zanzibar
402 bgs, Robin Locksley, Dar Es Salaam
COPAL GUM—951 bgs, O G Innes Corp, African Glen, Matadi
100 bgs, H P Winter & Co, African Glen, Matadi
108 bgs, U S Industrial Chemicals, Inc, President Polk, Manila
68 bgs, S P Winter & Co, President Polk, Manila
42 bgs, O G Innes Corp, President Polk, Manila
COPRA—1,025 tons, Spencer Kellogg & Sons, Lipscomb Lykes, Legaspi
750 tons, Lipscomb Lykes, Puerto Real Quezon
400 tons, Lipscomb Lykes, Hondagua Quezon
600 tons, Lipscomb Lykes, Slain Quezon
CORIANDER SEED—300 bgs, W E Martin Co, Exiria, Leghorn
275 bgs, Otto Gerdau Co, Wideawake, Buenos Aires
CREAM OF TARTAR—100 bbls, T M Duche & Sons, Monte Castelo, Barcelona
CRESYLIC ACID—300 dms, American Cyanamid & Chemical Corp, Vardulia, London
100 dms, Schenectady Varnish Co, American Importer, Manchester
50 dms, Reinhart Chemical Co, American Importer, Liverpool
186 dms, American Importer, Liverpool
121 dms, Vasconia, London
441 dms, Torro Head, Liverpool
CUBE ROOT—110 bls, Morris Hess & Co, Santa Luisa, Callao
CUBEB BERRIES—20 bgs, W E Martin Co, President Polk, Singapore
CUMIN SEED—354 bgs, Khosrovschahi & Co, Jalakanye, Karachi
DEXTRIN—50 bls, O Eisman, New Amsterdam, Rotterdam
DYES, ANILIN—116 dms, Ciba Co, Madaket, Antwerp
1 cs, Ciba Co, Madaket, Antwerp
ESSENTIAL OIL—22 dms, Fritzsche Bros, Exiria, Seville
11 dms, Dodge & Olcott Co, Exiria, Seville
10 dms, Dodge & Olcott Co, Extavia, Seville
11 dms, Geo Lueders & Co, Extavia, Seville
5 dms, Fritzsche Bros, Extavia, Seville
10 dms, Dodge & Olcott Co, Extavia, Malaga
37 dms, Extavia, Malaga
FERRO TITANIUM—40 dms, Vasconia, London
FISH OIL—28 cks, Fishery Products, Inc, Zebrula, Burin
FLEASEED HUSK—161 bls, T M Duche & Sons, President Polk, Bombay
141 bls, S B Penick & Co, President Polk, Bombay
FUEL OIL—101,342 bbls, Gulf Oil Corp, Quenado Lake, Curacao
104,102 bbls, Texas Co, Hubbardton, Curacao
10,000 bbls, Asiatic Petroleum Corp, Santa Rosa, Curacao
105,000 bbls, Standard Oil Co N J, J A Mowinckel, Aruba
10,000 bbls, Asiatic Petroleum Corp, Santa Paula, Curacao
GALLNUTS—67 bgs, J H Lowenstein & Son, Pacific Victory, Tripoli
GAS OIL—105,663 bbls, First National Oil Corp, Chalmette, Tampico
GELATIN—20 cs, W R Grace & Co, Santa Luisa, Valparaiso
GINGER—266 bgs, Frame & Co, African Glen, Freetown
600 bgs, Superintendence Co, Inc, African Glen, Freetown
GLYCERIN—85,536 lbs, Procter & Gamble Co, Seatrain Texas, Havana
GREAVES—1,472 cakes, Vanderstein Co, Wideawake, Buenos Aires
12 bgs, Vanderstein Co, Wideawake, Buenos Aires
GYPSUM—400 bgs, Hammil & Gillespie, Vardulia, London
200 bgs, Whittaker, Clark & Daniels, American Importer, Liverpool
306 bgs, L A Salomon & Bros, American Importer, Liverpool
HAWTHORN BERRIES—20 bgs, S B Penick & Co, Vasconia, London
HERBS—51 bgs, Peek & Velsor, Exiria, Seville
HERRING OIL—4 dms, M W Kellogg & Co, Trierfjord, Bergen
ILMENITE SAND—9,400 tons, National Lead Co, J W Johnson, Alleppy
INDICUM, REFINED—4 cs, Cerro de Pasco Copper Corp, Santa Luisa, Callao
IRON OXIDE—5,435 bgs, C K Williams & Co, Extavia, Malaga
1,522 bgs, Landes Segel Color Co, Extavia, Malaga
64 bbls, Reichard, Coulston, Inc, Extavia, Malaga
64 bbls, J Lee Smith & Co, Extavia, Malaga
2 bbls, Advice, Inc, Extavia, Malaga
JUNIPER OIL—10 dms, Ungerer & Co, Extavia, Malaga
KARAYA GUM—114 bgs, Innis, Speiden & Co, President Polk, Bombay
171 bgs, Paul A Dunkel & Co, President Polk, Bombay
67 bgs, Max Van Pels, President Polk, Bombay
KOLANUTS—100 bgs, D Steengrafe & Co, Coastal Viking, Kingston
KYANITE—162 tons, Golwynne Chemical Corp, Argonaut, Mombasa
227 tons, Golwynne Chemical Corp, Robin Locksley, Mombasa
LAVENDER OIL—50 dms, Continental Bank & Trust Co, Monte Castelo, Barcelona
LAVENDER SPIKE OIL—6 dms, Geo Lueders & Co, Extavia, Alicante
LEMON OIL—1 dm, W J Bush & Co, Bresle, Port au Prince
2 half cs, C J Danco, Inc, Bartlesville Victory, Oran
17 half cs, Bartlesville Victory, Oran
24 qr cs, Bartlesville Victory, Oran
LEMONGRASS OIL—6 dms, United States Rubber Co, President Polk, Cochin
2 dms, W J Bush & Co, Coastal Viking, Port au Prince
LIME JUICE—10 cks, W J Bush & Co, Hawser Eye, Roseau
2 cks, Barclay Bank, Hawser Eye, Roseau
LIME OIL—25 cs, Dodge & Olcott Co, Coastal Viking, Kingston
1 dm, S B Penick & Co, Hawser Eye, Roseau
6 cs, Lo Curto & Funk, Alcoa Cavalier, St Lucia
LOCUST BEAN GUM—50 bgs, Wm M Allison & Co, Pacific Victory, Larnaca
100 bgs, Paul A Dunkel & Co, President Polk, Genoa
80 bgs, Stein, Hall & Co, Pacific Victory, Larnaca
MACE—2 cs, Wessel, Kulenkampf & Co, Alcoa Cavalier, St Lucia
6 cs, Kennedy, Butcher & Co, Alcoa Cavalier, Grenada
69 cs, Middleton & Co, Alcoa Cavalier, Grenada
MANGROVE BARK—452 bgs, Vermilye Corp, Argonaut, Zanzibar
1,705 bgs, A Baumann & Co, Argonaut, Zanzibar
1,283 bgs, Vermilye Corp, Robin Locksley, Mombasa
1,384 bgs, Vermilye Corp, Robin Locksley, Zanzibar
MICA—222 cs, Brown Bros-Harriman Co, Vasconia, London
24 cs, Brown Bros-Harriman Co, Vardulia, London
96 cs, W Richmond Supply Co, Explorer, Calcutta
18 cs, General Electric Co, Explorer, Calcutta
159 cs, Otto Gerdau Co, Explorer, Calcutta
161 cs, A O Schoonmaker Insulation Co, Explorer, Calcutta
95 cs, A O Schoonmaker Insulation Co, Cape Elizabeth, Calcutta
30 cs, Cornelis & Suhr, Cape Elizabeth, Calcutta
MOLASSES—1,006 tons, W R Grace & Co, Santa Luisa, Sulaverry
MUSTARD SEED—600 bgs, Vasconia, London
NAPHTHALENE—832 bgs, C H Asche & Co, Durengo Victory, Antwerp
NUTMEGS—3 bgs, Wessel, Kulenkampf & Co, Alcoa Cavalier, St Lucia
100 bgs, R T French Co, Alcoa Cavalier, Grenada
50 bgs, D Hecht & Co, Alcoa Cavalier, Grenada
50 bgs, Otto Gerdau Co, Alcoa Cavalier, Grenada
25 bgs, Knickerbocker Mills Co, Alcoa Cavalier, Grenada
50 bgs, C M Van Sillevoldt, Alcoa Cavalier, Grenada
50 bgs, C T Wilson & Co, Alcoa Cavalier, Grenada
50 bgs, Wm M Allison & Co, Alcoa Cavalier, Grenada
375 bgs, J A Mac Glade, Alcoa Cavalier, Grenada
225 bgs, A G Dunn, Alcoa Cavalier, Grenada
1,133 bgs, Middleton & Co, Alcoa Cavalier, Grenada
OLIVE OIL—79 dms, Berolio Importing Co, Netherlands Victory, Piraeus
50 dms, Lekas & Drivas, Netherlands Victory, Piraeus
800 cs, Berolio Importing Co, Exiria, Leghorn
50 cs, Chase National Bank, Extavia, Seville
OPIUM—250 cs, Mallinckrodt Chemical Works, Netherlands Victory, Istanbul
29 cs, Hoffman-La Roche, Netherlands Victory, Istanbul
188 cs, Merck & Co, Netherlands Victory, Istanbul
ORANGE OIL, SWEET—500 cs, Geo Uhe Co, Wideawake, Santos
50 cs, Orbis Products Corp, Wideawake, Santos
250 cs, Fritzsche Bros, Wideawake, Santos
ORRISROOT—20 bgs, National City Bank, Exiria, Leghorn
OROTHOCRESOL—49 dms, Torr Head, Liverpool
OURICURY WAX—120 bgs, Wessel, Duval & Co, Loide Canada, Bahia
59 bgs, Wm M Allison & Co, Loide Canada, Bahia
56 bgs, Innis, Speiden & Co, Loide Canada, Bahia
34 bgs, Strahl & Pitsch, Loide Canada, Bahia
44 bgs, Paul & Stein Bros, Loide Canada, Bahia
PAPAIN—33 cs, Louis Furth, Inc, Argonaut, Mombasa
75 cs, S B Penick & Co, Argonaut, Mombasa
16 cs, Dehls, Stein Co, Robin Locksley, Mombasa
40 cs, C L Huisking & Co, Robin Locksley, Tanga
PAPRIKA—400 bgs, Ludwig Mueller & Co, Aconcagua, Valparaiso
25 bgs, Penson & Co, Exiria, Alicante
103 bgs, Schoenfeld & Sons, Exiria, Alicante
300 bgs, The Callerman Co, Exiria, Alicante
100 bgs, Frank Tea & Spice Co, Exiria, Alicante
100 bgs, E R Alonza, Exiria, Alicante
1,080 bgs, J Weinstein & Co, Exiria, Alicante
25 bgs, Gold Medal Products Co, Exiria, Alicante
100 bgs, J Raphael & Son, Exiria, Alicante
200 bgs, J H Forbes Tea & Coffee Co, Exiria, Alicante
100 bgs, Levy & Levis Co, Exiria, Alicante
100 bgs, D G Evans Coffee Co, Exiria, Alicante
75 bgs, A A Sayia & Co, Exiria, Alicante
50 bgs, International Expediters, Inc, Exiria, Alicante
4 bgs, American Export Line, Exiria, Alicante
475 bgs, Exiria, Alicante
400 bgs, Santa Luisa, Valparaiso
200 bgs, J Golombeck, San Miguel, Lisbon
200 bgs, J H Forbes Tea & Coffee Co, San Miguel, Lisbon
300 bgs, J Raphael & Son, San Miguel, Lisbon
75 bgs, McLaughlin, Gormley & King, Extavia, Alicante
350 bgs, Steinharder & Nordlinger, Extavia, Alicante
50 bgs, Commercial Importing Co, Extavia, Alicante
28 cs, J Victory & Co, Extavia, Alicante
200 bgs, M A Peruzzi & Co, Extavia, Alicante
50 bgs, Gallagher & Ascher, Extavia, Alicante
50 bgs, American Spice Co, Extavia, Alicante
275 bgs, Levy & Levis Co, Extavia, Alicante
150 bgs, J Raphael & Son, Extavia, Alicante
320 bgs, J Weinstein & Co, Extavia, Alicante
50 bgs, Biddle Purchasing Co, Extavia, Alicante
50 bgs, Safe Owl Product Co, Extavia, Alicante
50 bgs, R A Railton & Co, Extavia, Alicante
100 bgs, S H Taylor & Son, Extavia, Alicante
50 bgs, Knickerbocker Mills Co, Extavia, Alicante
200 bgs, Joensson & Cross, Extavia, Alicante
300 bgs, D Hecht & Co, Extavia, Alicante
PARSLEY OIL—3 cs, Dodge & Olcott Co, New Amsterdam, Rotterdam
PATCHOULI LEAVES—205 bgs, Bank of the Manhattan Co, Robin Locksley, Mombasa
PATCHOULI OIL—1 dm, Ungerer & Co, Argonaut, Mombasa
1 dm, Dodge & Olcott Co, Argonaut, Mombasa
1 cs, A Chiris & Co, Argonaut, Mombasa
3 cs, Centflor Mfg Co, President Polk, Penang
PENDARO GUM—34 bls, Chicle Development Co, Gordias, Curacao
PENNYROYAL OIL—3 dms, Dodge & Olcott Co, Extavia, Alicante
1 dm, Ungerer & Co, Extavia, Alicante
PEPPER, BLACK—163 bgs, Catz American Co, Madaket, Rotterdam
40 bgs, Vierhaus & Abecassis, Pierre Victory, Rotterdam
176 bgs, Mincing Trading Corp, Jalakanya, Cochin
176 bgs, Joensson & Cross, Jalakanya, Cochin
650 bgs, C M Van Sillevoldt, Explorer, Cochin
800 bgs, Joensson & Cross, Explorer, Cochin
1,586 bgs, Mincing Trading Co, Explorer, Cochin
240 bgs, Internatra Rotterdam, Explorer, Cochin
476 bgs, W E Martin Co, Explorer, Cochin
191 bgs, D Hecht & Co, Explorer, Cochin
784 bgs, Otto Gerdau Co, Explorer, Cochin
240 bgs, Olivier & Co, Explorer, Cochin
75 bgs, Wolmet Raw Product Co, Explorer, Cochin
917 bgs, W Golodetz Co, Explorer, Cochin
779 bgs, Wallace Bros, Explorer, Cochin
3,200 bgs, Volkart Bros, Explorer, Cochin
39 bgs, Bansidhar Gopaldos & Co, Explorer, Cochin
433 bgs, Explorer, Cochin
40 bgs, Otto Gerdau Co, President Polk, Cochin
47 bgs, D Hecht & Co, President Polk, Cochin
720 bgs, Volkart Bros, President Polk, Cochin
206 bgs, R J Spitz, Inc, President Polk, Cochin
240 bgs, Becker-Mayer Seed Co, President Polk, Cochin
140 bgs, Bansidhar Gopaldos & Co, President Polk, Cochin
80 bgs, Ludwig Mueller & Co, American Importer, Liverpool
WHITE—112 bgs, Internatio Rotterdam, Inc, President Polk, Singapore
PERILLA GUM—216 bgs, Chicle Development Co, Santa Monica, Barranquilla
212 bgs, Chicle Development Co, Santa Ines, Barranquilla
PETITGRAIN OIL—3 dms, Orbis Products Corp, Coastal Viking, Port au Prince
1 dm, A Chiris & Co, Coastal Viking, Port au Prince
PETROLEUM, CRUDE—121,685 bbls, Standard Oil Co N J, Esso Scranton, Puerto La Cruz
113,532 bbls, Imperial Oil Co, Ltd, Hammerfest, Puerto La Cruz
104,996 bbls, Gulf Oil Corp, Gulfbird, Las Piedras
105,110 bbls, Standard Oil Co N J, Battle Rock, Las Piedras
106,608 bbls, Standard Oil Co N J, Carlsbad, Cartagena
67,410 bbls, Shell Oil Co, Patella, Curacao
102,627 bbls, Cities Service Oil Co, Finnin Ark, Las Piedras
123,688 bbls, Standard Oil Co N J, New Haven, Puerto La Cruz
PHOSPHATE ROCK—10 bgs, Oldbury Electric Chemical Co, American Shipper, London
PIMENTO—100 bgs, Gillespie & Co, Coastal Viking, Kingston
500 bgs, Otto Gerdau Co, Coastal Viking, Kingston
PIMENTO LEAF OIL—2 dms, Dodge & Olcott Co, Coastal Viking, Kingston
POPPYSEED—56 bgs, Louis Furth, Inc, Argentina, Copenhagen
100 bgs, Catz American Co, Jefferson City, Rotterdam
200 bgs, A G Dunn, Jefferson City, Rotterdam
200 bgs, Jefferson City, Rotterdam
200 bgs, A G Dunn, Southland, Rotterdam
POTASH SALTS—34 kgs, A Gusmer, Vardulia, London
10 cs, A Gusmer, Vardulia, London
POTASSIUM PERCHLORATE—34 bbls, Chilean Nitrate Sales Corp, Antofagasta
PYRETHRUM FLOWERS—479 bls, Westinghouse Electric International Co, Argonaut, Mombasa
QUASSIA CHIPS—380 bgs, S B Penick & Co, Coastal Viking, Kingston
900 bgs, R J Prentiss & Co, Coastal Viking, Kingston
QUEBRACHO EXTRACT—7,263 bgs, C M Loeb-Rhoades & Co, Wideawake, Buenos Aires
19,733 bgs, River Plate Import & Export Corp, Wideawake, Buenos Aires
ROSEMARY OIL—11 dms, Dodge & Olcott Co, Extavia, Alicante
3 dms, W J Bush & Co, Extavia, Alicante
22 dms, Geo Lueders & Co, Extavia, Alicante
1 dm, D M Matton & Co, Exiria, Alicante
SAFFRON—2 cs, David Kleckner, San Miguel, Oporto
SEEDLAC—200 bgs, Explorer, Calcutta
250 bgs, Muc Lac Co, Cape Elizabeth, Calcutta
200 bgs, Cape Elizabeth, Calcutta
SHARK LIVER OIL—40 bbls, Ocean Leather Co, John Armstrong, Puerto La Cruz
SHELLAC—100 bgs, Bradshaw, Praeger & Co, Explorer, Calcutta
100 bgs, E Meer & Co, Explorer, Calcutta
100 bgs, The Mantrose Corp, Explorer, Calcutta
1,400 bgs, Explorer, Calcutta
250 bgs, The Mantrose Corp, Cape Elizabeth, Calcutta
100 bgs, Dings & Schuster, Cape Elizabeth, Calcutta
350 bgs, Cape Elizabeth, Calcutta
400 bgs, Vasconia, London
349 bgs, Vardulia, London
SILVER SULPHIDES—225 bgs, Watson, Geach & Co, Santa Luisa, Antofagasta
SOAPBARK—313 bls, S B Penick & Co, Aconcagua, Valparaiso
SODIUM HYDROXIDE—100 dms, Bergstrom Trading Co, Gripsholm, Gothenburg
TALC—2,331 bgs, Charles Mathieu, Inc, Pacific Victory, Genoa
TANKAGE, RENDERED—500 bgs, Wessel, Duval & Co, Wideawake, Montevideo
2,183 bgs, Swift & Co, Wideawake, Buenos Aires
5,457 bgs, H J Baker & Bro, Wideawake, Buenos Aires
TANTALITE—40 bgs, Philipp Bros, Loide Canada, Bahia
TAPIOCA FLAKE—100 bgs, Geismar & Co, Eidanger, Santos
FLOUR—7,919 bgs, Geismar & Co, Eidanger, Santos
TAR, MEDICINAL—25 dms, Extavia, Malaga
TARTARIC ACID—200 dms, Arthur B Frank, Monte Castelo, Barcelona
TEAWASTE—2,301 bgs, Maywood Chemical Works, Explorer, Calcutta
TOLU BALSAM—10 cs, Rosing Bros Co, Santa Ines, Barranquilla
100 cs, Magnus, Mabee & Reynard, Santa Ines, Barranquilla
TONKA BEANS—20 cks, Machado & Co, Alcoa Cavalier, Trinidad
UMBER EARTH—1,856 bgs, Reichard, Coulston, Inc, Pacific Victory, Larnaca
VALONEA EXTRACT—4,871 bgs, International Products Corp, Netherlands Victory, Mityfid
VANILLA BEANS—20 cs, Geo Lueders & Co, Hawser Eye, Roseau
6 cs, Royal Bank of Canada, Hawser Eye, Roseau
VETIVER OIL—1 dm, Trubek Laboratories, Inc, Coastal Viking, Port au Prince
1 dm, Van Ameringen-Haebler, Coastal Viking, Port au Prince
WATTLE BARK—8,274 bls, Hammond & Carpenter, Constantia, Durban
EXTRACT—1,096 bgs, American Dyewood Co, Constantia, Durban
481 bgs, Wolmet Raw Products Co, Argonaut, Tanger
WHITING—400 bgs, Nicholas Weitzner, Hastings, Antwerp
WITHERITE—400 bgs, E I du Pont de Nemours & Co, American Importer, Liverpool
WOLFRAM ORE—281 bgs, Philipp Bros, Robin Locksley, Mombasa
WOOL GREASE—4 dms, Interocean Forwarding Co, Vasconia, London

Baltimore

CASSIA—100 bls, Van Norden & Archibold, President Polk, Hongkong
CHROME ORE—2,500 tons, Associated Metal & Mineral Corp, Netherlands Victory, Pandeuna
2,522 tons, 18 cwt, Mutual Chemical Co, Argonaut, Lourenco Marques
COPRA—3,117 tons, Procter & Gamble Co, Lipscomb Lykes, Cebu
MANGANESE ORE—8,100 tons, Bethlehem Steel Co, Constantia, Durban
MICA SCRAP—500 bgs, Richmond Mica Corp, Constantia, Lourenco Marques

Boston

CARAWAY SEED—100 bgs, Levy & Levis Co, Pierre Victory, Rotterdam
CASEIN—740 bgs, Atlantic Gelatin Co, Durengo Victory, Antwerp
COD OIL—52 cks, F W Damon, Fort Townsend, St Johns
8 dms, F W Damon, Fort Townsend, St Johns
GLUESTOCK—25 bdls, H Remis & Co, Santa Monica, Barranquilla
384 bdls, J Gorvers & Co, Bresle, Puerto Plata
2 seroons, J Gorvers & Co, Bresle, Puerto Plata
MUSTARD SEED—600 bgs, Webster & Atlas National Bank, American Shipper, London
OLIVE OIL—100 cs, S S Pierce, Pacific Victory, Genoa
OSSEIN—811 bgs, First National Bank, Pierre Victory, Antwerp
TALC—270 bgs, Charles Mathieu, Inc, Pacific Victory, Genoa
STARCH, CHEMICAL TREATED—1,000 bgs, A M Meincke & Son, Pierre Victory, Rotterdam

Squibb Appoints Toohy General Sales Manager

John J. Toohy, associated with E. R. Squibb & Sons for twenty-five years, and vice-president of the company since 1945, has been named general sales manager for

John J. Toohy

the company. The company also has announced the appointment of T. I. McGuire as manager of the Los Angeles sales division, and B. B. Drake as professional service director at Los Angeles.

Mr. McGuire, formerly manager of the Squibb Kansas City and Cleveland sales divisions, recently served in special sales promotion work in the New York headquarters. Mr. Drake has served as professional sales representative, hospital service manager, and more recently as Los Angeles division office manager. He has been succeeded in the latter post by Robert W. Emerson.

TEXTILE GUM—60 cks, J P Marston & Co, American Importer, Liverpool
WAX, BLACK—55 bgs, Shawmut Bank, Pierre Victory, Rotterdam
WHITING—10 bgs, Boston Putty Works, Pierre Victory, Antwerp

Philadelphia

CERAMIC COLORS—5 cs, Shenango Pottery Co, American Importer, Liverpool
COD OIL—85 dms, Whiteman, Walton Co, Fort Townsend, St Johns
15 cks, Whiteman, Walton Co, Fort Townsend, St Johns
COPAL GUM—200 bgs, J Meyer & Sons, African Glen, Matadi
UMBER EARTH—754 bgs, C K Williams & Co, Pacific Victory, Larnaca

San Francisco

ASBESTOS—332 bgs, Plant Rubber & Asbestos Works, Argonaut, Lourenco Marques
PEPPER, BLACK—240 bgs, E C Ireland, Inc, President Polk, Cochin
240 bgs, Internatio Rotterdam, Inc, President Polk, Cochin
TALC—270 bgs, All Brite Trading Co, President Polk, Genoa
TUNG OIL—250 tons, Pacific Vegetable Oil Co, President Polk, Shanghai
300 tons, Pacific Vegetable Oil Co, President Polk, Hongkong

Commercial Solvents Names Five to Research Staff

Commercial Solvents Corporation has added four members to its research staff at Terre Haute, Ind., and one chemist to the staff of its Sterlington, La., plant. Located at Terre Haute are:—Dr. Ohmer G. Wegrich, mycologist; Marvin C. Bachman, bacteriologist; Richard E. Ray, organic chemist, and Wallace L. Ott, pharmacologist. The lone addition at Sterlington is David L. Nicol, jr.

N.J. Chemists to Meet

The New Jersey Chapter of the American Institute of Chemists will meet at 8 o'clock tonight in the Public Service Auditorium, Newark. Speaker will be Dr. Harry L. Fisher, director of organic research for U. S. Industrial Chemicals, Inc., who will discuss "Synthetic Rubbers—Present and Future."

Trade Briefs

Iowa State College of Agriculture and Mechanic Arts has received a gift of equipment for the production of milk powder from War Assets Administration.

Dr. Theodore G. Klumpp, president of Winthrop-Stearns, Inc., New York, was appointed to the advisory committee of the New York State Joint Legislative Committee on Problems of the Aging.

Rexall Drug Company has appointed Roy Goldheim merchandising manager of its household and hard goods department, and has named William Preye to succeed him as manager of its buying offices in New York.

AIC President Scores Chemists' Status in N.Y.C.

In letters to the Mayor of New York City, to the city's Civil Service Commission and to its Budget Director, Dr. Foster D. Snell, president of the American Institute of Chemists, has pointed out that the city's civil service schedule gives chemists basic salaries in general less than half those paid by industry and substantially less than those paid by the Federal government.

Both government and industry today recognize the importance of chemists to the health and well-being of the nation, Dr. Snell said, but "we have found that New York City's civil service schedule for professional chemists, prepared in 1937 and still in effect, failed at that time to evaluate chemists properly and classified them in some cases below the salary position of semi-professional workers."

Dr. Snell added that substandard ratings for chemists will not attract nor keep them in city work, and that the cost of placing them on a parity with Federal employees would not be great.

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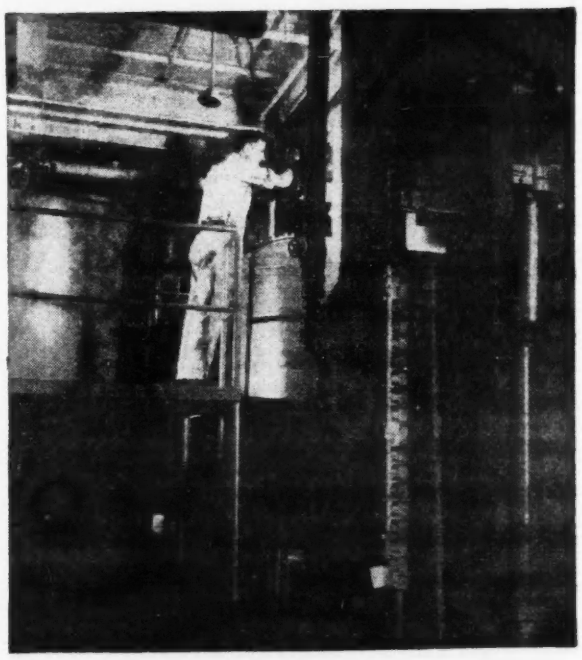

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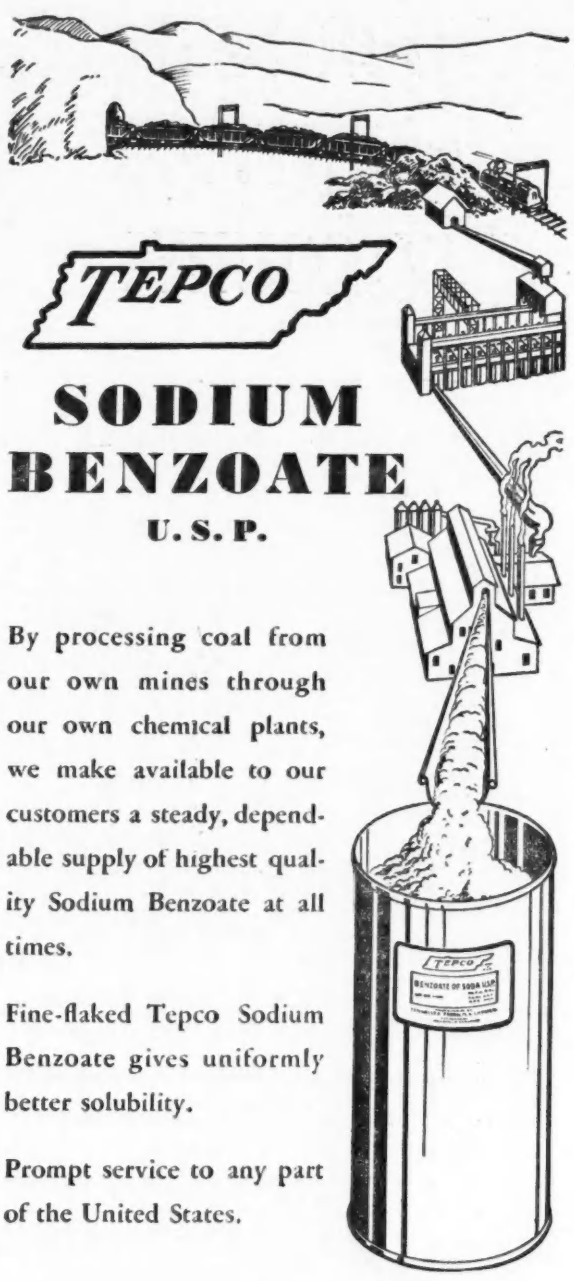

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Drug Trade Conference

—Continued from page 5

contributing much to support the operations of fair trade.

6. Approved the aims and purposes of the pharmaceutical survey.

7. Favored the conducting of a national census of manufacturing and distribution every five years and endorsed the bills (H.R. 1821 and S. 554) with that purpose.

8. Opposed the empowering of the Federal Trade Commission, as in H.R. 3736, further to prevent business mergers, considering such power to be too sweeping unless the action of the commission were subject to judicial review and revision.

9. Favored the increasing of the compensation of members of the Federal Trade Commission from $10,000 to $15,000 a year.

10. Approved H.R. 3871 designed to require the Federal Trade Commission to try its cases in open court.

11. Opposed H.R. 6178 which would place barbiturates under the Harrison antinarcotic act, and urged the adoption of more effective State control of barbiturates.

12. Deplored the practice of referring to narcotics as "drugs," and called upon newspapers and other publications not to use the word, "drug," when the reference was to a narcotic.

13. Favored the elimination of the 20-percent tax on cosmetics.

14. Favored the petitioning of Congress for the enactment of legislation which would reduce the revenue tax on medicinal alcohol to $1 per proof-gallon.

Chain Stores Admitted

On the motion of E. L. Newcomb, of the National Wholesale Druggists Association, seconded by George Frates, of the National Association of Retail Druggists, the National Association of Chain Drug Stores was elected to membership in the conference. Membership of the conference in the Chamber of Commerce of the United States was continued.

One of the major features of the meeting was the report for the committee on uniform legislation, presented by Secretary Schlotterer in the absence, because of illness, of the committee chairman, Robert P. Fischelis. On work done during the past year the report told of the continuing efforts to prepare a draft of a uniform State law on veterinary medicines which would be acceptable also to the Animal Health Institute, which is cooperating in the work.

It also reported the campaign for uniform State legislation defining poisons and regulating their labeling, packaging, and sale. In that connection, the committee had taken full cognizance of the work of the committee on labels and precautionary information of the Manufacturing Chemists Association. Bills on poisons had been introduced in six States and, more or less modified, had been passed in three. An outline of the new Federal pesticide, or economic poisons, law, with particular reference to its application to manufacturers, wholesalers, and retailers in the drug industry, was given by John Connor, counsel for the National Association of Insecticide and Disinfectant Manufacturers. Copies of his commentary in full will be distributed.

Chairman Fischelis incorporated in his report his personal views—so designated—on the difficulties the committee was having in its endeavor to prepare a draft of a uniform State pharmacy law. He contended that everything connected with the supplying of medical care for the public should be provided under professional supervision. He admitted the need for some distribution outside the areas of licensed druggists in locations where such sources were inadequate; but he felt that such exemption should not be applied everywhere. He decried a divided house in appearances before legislative bodies and deplored recriminations so often heard. It was his view that it should be simple for all to agree in the matter and he recommended that all members interchange information so as to get the uniformity in pharmacy laws—particularly the "restricted sales" provision—as had been attained in other phases of the committee's program. The report was received, and the committee was continued.

Educational Support

Although this year's financial support of the American Foundation for Pharmaceutical Education has fallen off a bit, the foundation's position is at its soundest, said S. Barksdale Penick, its treasurer. Its program has advanced in importance, he continued, and it should get all necessary support from the industry. An appeal for funds for the foundation is being made to all branches of the industry, said E. L. Newcomb, its secretary. A communication from Ernest Little, strongly urged continuation of the founda-

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Research Directors for Sharp & Dohme

Dr. Paul C. Hegarty (left) has been appointed director of antibiotic research, and Dr. L. D. Wright has been named director of nutritional research for Sharp & Dohme, Inc., Philadelphia. Dr. Hegarty, who joined the company in 1944, was formerly a research associate in the firm's department of bacteriology. Dr. Wright joined the company in 1942 as research associate in the department of pharmacology.

tion's endeavors to create an investment fund for the endowment of fellowships and other means of providing more adequate pharmaceutical teaching facilities. Telling about the progress of the survey of pharmaceutical education, Edward C. Elliott said that the biggest problem of the drug industry is to get any keep high-level manpower. He enthusiastically supported the plans and purposes of the educational foundation and urged that the "mills" now provided for the training of personnel equipment be brought closer in volume to the "millions" devoted to commercial promotion.

Officers and Commiteemen

There was but one slate of officers in the field, and the following were unanimously elected:—

President, Carson P. Frailey, of the American Drug Manufacturers Association, Washington.

Vice-president, Frederick J. Cullen, of the Proprietary Association, Washington.

Secretary-treasurer, Ray C. Schlotterer, of the Federal Wholesale Druggists Association, New York.

The members of the executive committee, selected by the constituent associations as their representatives, are:—

American Association of Colleges of Pharmacy, Ernest Little.

American Drug Manufacturers Association, Carson P. Frailey.

American Pharmaceutical Association, Robert P. Fischelis.

American Pharmaceutical Manufacturers Association, John L. Hammer.

Federal Wholesale Druggists Association, Ray C. Schlotterer.

National Association of Boards of Pharmacy P. H. Costello.

National Association of Chain Drug Stores, F. J. Griffiths, acting until permanent member selected at organization's annual meeting.

National Association of Retail Druggists, George Frates.

National Wholesale Druggists Association, E. L. Newcomb.

Proprietary Association, F. J. Cullen.

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Proprietary Association

—*Continued from page 4*

the root bark being most potent. The report also stated that studies indicate that *Piscidia Erythrina* has a low relative toxicity when fed orally to rats.

Dr. Kurt A. Oster, of McKesson & Robbins' research laboratories, reported that the principal available laboratory tests designed to evaluate the fungistatic and fungicidal properties of antifungal substances have now been thoroughly investigated and modified. He said that ten alcohol-soluble compounds commonly used in the treatment of athlete's foot were chosen for the study.

"Using the modified methods developed during the study for evaluation of the ten compounds and the information obtained from them, we have found a different chemical combination to which we have given the name 'Octofen.' This preparation has proven extremely effective in the clinical treatment of dermatophytosis. Several extremely stubborn cases of athlete's foot have been successfully treated with the product," Dr. Oster announced to the meeting.

An exhaustive literature search on the effect involved in taste and odor of medicines on both the physiological and chemical processes was presented to the meeting by Dr. I. W. Grote and Peggy Walker, of the Chattanooga Medicine Company.

"The preparations of medicinal products that are pleasing and palatable is extremely important," Dr. Grote said "for these factors in many cases have a definite bearing on the therapeutic value of medicines from a physiological as well as a chemical process standpoint," and added that "we have tried to reduce the matter of flavoring in medicinal preparations to a more systematic one than the process of mere trial and error as has been the case in the past."

In discussing new methods of administering penicillin. Dr. Oscar R. Sumner, of Charles Pfizer & Co., said that the maintenance of effective blood levels using aqueous solutions of penicillin has presented difficulties because of the rapidity at which the penicillin was excreted.

"Various dosage forms have been proposed and used to overcome this need of frequent administration," he said. "The most widely used to date has been penicillin in oil and wax and while this has been a marked improvement, it has in certain cases caused untoward effects. To overcome these effects other forms have been suggested, including penicillin in oil with vasoconstrictor, penicillin in oil and pectin, and, mostly recently, procaine penicillin in oil."

Dr. Sumner discussed these various dosage forms and the relative success of each in maintaining penicillin over extended periods in the blood stream.

Dr. F. H. Buckwalter, of Bristol Laboratories, discussed the manufacture and the physical properties of the liquid Romansky formula (penicillin in peanut oil and beeswax). He presented pharmacological and clinical results showing a comparison between the regular and liquid Romansky formula, paying particular attention to the role of particle sizes of penicillin in the duration of blood levels.

It has been established, he said, that comparatively large particles of penicillin must be used in the liquid Romansky formula in order to maintain a high degree of efficacy, while in the regular Romansky formula, sizes of particles of penicillin were not a factor in determining the degree of efficacy.

His paper presented a careful analysis of the effects of various sizes of penicillin in the liquid peanut oil and beeswax formula and gave the results of each based on clinical and pharmacological study.

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Botanical Drugs, Spices, Gums

Trading in botanicals during the past week was light in volume. For the most part, buyers were aloof from the spot, contenting themselves with purchasing only actual necessities and putting forward into the new year those larger needs upon which botanical dealers depend for the building of tonnage transactions. In condimental items, the tendency of prices to soften was pronounced. In medicinals, domestic items, the short crop as an influence appeared locally and several items were substantially higher.

French items came in for some difficulty when it came to communication with shippers in France. The political turmoil and the strikes that crippled trade and industry extended to the cable and telegraph services of the government. Numerous transactions were attempted by cable, but answers were either vastly delayed or never did reach this country. Fortunately, stern measures taken by the government to meet what amounted to revolution against the Republic ended the strikes, and normality in communications was expected to resume almost immediately.

Another development connected with import trading in these entities was the flood of offerings coming out of the Far East and in most instances centering in merchandise hardly known to any one here. For example, India came through with offerings of a botanical named "curdli" and all attempts to identify the item certainly curdled. The liking for dollars was apparently stimulating Far Eastern merchants to propose business in anything botanical, save, possibly, straw. And when items could be identified, the terms and prices proposed revealed that the would-be sellers knew absolutely nothing about even the simplist of trade requirements. All of which led to the local comment that "Johnny-come-latelys" have a rising birth rate in the Far East.

Balsams

Copaiba—The firmer market developed during the previous trading period continued to be well maintained last week. Demand merely simmered but sales were sufficient fully to support the slightly higher market previously established.

Fir—Supplies of Canadian balsam were short on spot and in some ways the local market might be considered nominal. Certainly, quotations appeared to be subject to confirmation and the tendency was upward.

Tolu—The decline noted previously was not extended. However, the market continued to show signs of a more competitive position and conditions were still favorable for buying operations. Not a great deal of trading took place last week.

Barks

Black Haw—The more or less tight situation in root bark continued to operate in the direction of potentially higher prices. Lack of demand seemed the main influence that last week held quotations to an unchanged basis. Country operators had little to offer.

Cocillana—This is one of the medicinal botanicals that the British are considering for slating in the list of materials for which no import licenses will be granted. It is possible that the situation so far as export of this article from this country is concerned may tie in with the recent lowering of spot prices.

Elm—Powdered material was reported sold on the basis of 48c. to 50c. per pound last week, the price paid depending on the quantity of powder purchased. Grinding and bundled bark held steady.

Fringetree—Somewhat more competition than had prevailed of late developed in this item last week and offerings were reported on the open market at the lower price of 60c. to 65c. per pound.

Wahoo—Tree bark was higher at 55c. to 75c. per pound in keeping with the low level of stocks. Root bark was scarce and strong at $2.25 to $2.30. Demand was light.

White Pine—During the present season of higher consumption by manufacturers, the unsold stocks have decreased substantially and a higher market established at 20c. to 21c. per pound, to hold firm thereat throughout the past week.

Berries

Cubeb—Goods have begun to arrive once more from the Far East and during the past week, 20 bags reached here from Singapore to be merchandised at very steady prices.

Hawthorn—The local market was dull, trading being in small lots of jobbing variety. However, some gain in supply was noted when 20 bags reached here from London. British berries are considered prefered merchandise.

Flowers

Chamomile—Roman flowers assumed a firmer position despite the fact that a normal contraction in the article was taking place coincident with the approaching end of the year. Sellers revised prices upward and reported limited selling on the basis of $1.50 to $1.75 per pound. Hungarian-type material remained unchanged.

Elder—The market was steadier even though it was not very active. The recent reduction in price was said to have brought local quotations more satisfactorily into line with prevailing replacement cost. Supply was reported sufficient for considerably more than current needs.

Saffron—Mexican flowers were slightly lower and considerably easier. Demand had lagged for a substantial period of time and some quarters were disposed to stimulate the slow movement into consumer hands. Quotations at the close of last week stood at $1.50 to $1.55 per pound. Prices for Spanish flowers in tins were down sharply to $32 to $32.50 per pound and the item packed in wooden boxes dropped to $31 to $31.50.

Gums

Arabic—The year draws toward its end under demand of limited volume but created on the basis of prices fully steady in this market. Supply on spot protected future requirements very well and at the moment little trouble was being experienced in concluding business with the source. However, the unsettled political situation in the Near East could change that materially. Arrivals during the past week totaled 1,000 bags from Port Sudan.

Asafetida—Lump became steadier following the moderate recession in quotations

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Drugs

Chamomile flowers, Roman, 5c. per lb.
Culvers root, 16c. per lb.
Doggrass root, imported, 5c. per lb.
Elm bark, powdered, 3c. per lb.
Liverwort leaves, 15c. per lb.
Senna, T.V. No. 1, 2c. per lb.
Wahoo, tree bark, 10c. per lb.
White pine bark, rossed, 2c. per lb.

Other Articles

Cardamom fruit, bleached, bold, 5c. per lb.
Celery seed, Indian, spot, 2c. per lb.
futures, 1½c. per lb.
Cumin seed, Persian, 1c. per lb.
Pepper, red, capsicums, Mississippi, sports, 2c. per lb.

Prices Reduced

Drugs

Burdock root, 7c. per lb.
Fenugreek seed, Indian, futures, ¼c. per lb.
Ginger root, African, ¼c. per lb.
Jamaica, No. 3, ¾c. per lb.
Saffron, Mexican, 5c. per lb.
Spanish, tins, $4 per lb.
wooden boxes, 50c. per lb.
Senna, T.V., No. 2, 2c. per lb.
No. 3, 3c. per lb.
Spikenard root, 5c. per lb.

Other Articles

Anise, Syrian, 1c. per lb.
Cardamom fruit, decorticated, Guatemala, 10c. per lb.
Cinnamon, Ceylon, due soon, ½c. per lb.
Clove, Madagascar, ¼c. per lb.
Coriander seed, Moroccan, ¼c. per lb.
Dillseed, dewhiskered, ½c. per lb.
Laurel leaves, Turkish, ordinary, ½c. per lb.
Marjoram, Chilean, 1½c. per lb.
Mustard seed, Montana brown, ½c. per lb.
Pepper, black, spot, 2½c. per lb.
nearby futures, 4c. per lb.
distant futures, 2c. per lb.
Poppy seed, Danish, ½c. per lb.
Dutch, 1c. per lb.
Turkish, ½c. per lb.
Sage, Dalmatian, 1c. per lb.
Thyme, Spanish, 1c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
255.2	255.2	256.6	293.9

(For Current Prices see Page 9)

Imports Detained by FDA

New York

Week Ended December 3

Cassia, 600 bales: insect webbing and excreta.
Cassia oil, 10 drums: not USP.
Coriander seed, 2,612 bags: filthy.
Mace, 2 cases: insect infested.
Nutmegs, 388 bags: wormy and moldy.
Pepper, black, 555 bags: siftings and pickings; filthy.
Sage leaves, 16 bags: filthy.
Senna seed, 10 bags: filthy; sophora Japonica substituted.

Buffalo

Eucalyptus leaves, 20 bales: stems and twigs substituted.

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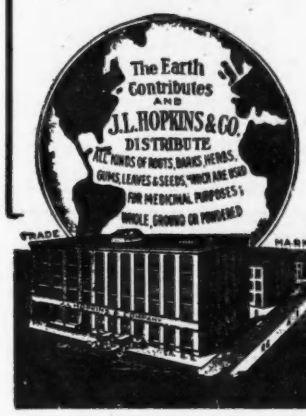
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during the preceding week. Powder was more readily obtainable now that millers may create a moderate reserve without danger of its being returned to lump form by excessive humidity.

Karaya—A steady market prevailed locally. Immediate demand was moderate but some selling was done on the basis of January 1 invoicing. Arrivals totaled 352 bags from Bombay, India.

Mastic—Consuming interest was very narrow and holders of gum at $2.25 per pound reported very few sales of the material.

Herbs and Leaves

Belladonna—The fact that four bales of this article reached here from Alexandria, Egypt, was something of a feature last week, mainly because any arrival of the item from foreign parts has been unusual and exceptional for some time past. Ordinarily, Europe supplies all domestic consuming requirements.

Grindelia Robusta — Britain is refusing further import licenses on this material, the idea being in line with the official program that looks to a reduction of all imports from hard currency countries. The manufacturing consumers are examining the moves recently taken officialy to reduce crude drug imports from the United States.

Liverwort—The scarcity pinched tighter steadily and quotations at 85c. to 95c. per pound were confirmed in actual sales during the past week.

Patchouli—This leaf continued to appear in import notices, the latest arrival being 205 bags from Mombassa.

Senna—No. 1 T. V. material was higher at 24c. to 25c. per pound, but other grades were lowered to the following levels: No. 2, 18c. to 20c.; No. 3, 15c. to 16c.; pods, 15c. to 16c. Competition has increased considerably of late.

Spearmint—Sales have shrunken supplies considerably and, based on the replacement cost now prevailing at the origin, spot quotations in being advanced to 55c. to 60c. per pound were said to be in line.

Thyme — Inactivity weakened the price position of Spanish herb and offerings came on the market last week at 10½c. to 11c. per pound.

Witch Hazel—Further imports by Great Britain have been jeopardized if not actually stopped by an official order that set up a program under which import licenses would not be issued to British importers for goods originating in the United States.

Irish Moss—Stocks were plentiful, a fact that gave competition more or less free reign on spot and tended to keep this article in a position favorable for buying operations—which, last week, were carbined, cribbed and confined.

Kola Nuts—A quiet market took in 100 bags from Kingston, Jamaica, without causing even a quiver on prices prevailing for some time past.

Papain—More or less firmly maintained replacement costs contributed added strength to the local market where competition has been absent for a considerable period of time. During the past week, 131 cases reached here from Mombassa, and 33 cases came in from Tanganyika, British East Africa.

Roots

Aconite—In the absence of new price developments, this article gained a remote prominence last week by appearing in the import lists to the extent of 30 bags that originated in Barcelona, Spain.

Burdock—Arrival of replenishments have brought a more competitive situation locally and spot offerings on the basis of 35c. to 36c. per pound were noted last week when the call was light.

Colombo—Activity was limited to hand-to-mouth requirements but the market held fairly steady. During the past week stocks gained to the extent of 156 bags that reached here from Zanzibar, and 402 bags that had Tanganyika, British East Africa, as their origin.

Culvers—The British authorities are examining the possible ban on further imports from the United States. Refusal of import licenses on American crude drugs has been made a part of the British general scheme to reduce imports of merchandise originating in hard currency countries. The spot market was 60c. to 65c. per pound and no oversupply existed here or in the country.

Doggrass—Imported root sold at the higher level of 35c. to 40c. per pound last week and in keeping with the replacement position of the item, selles were disposed to be somewhat reserved in offerings for the time being at least.

Goldenseal—With Britain removed as an export market for this American botanical—no import licenses are being granted there—it remains to be seen what effect, if any, the narrowing of the export possibilities may ultimately have on the price of this article.

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Dec. 20, 1880—Broadway lit by Arc Lights.
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The last price movements had been substantially downward.

Queen of the Meadow—The "lady" was more expensive, as ladies sometimes have the habit of being. Quotations were up to the basis of 15c. to 16c. per pound, with moderate sales being reported thereat and without a substantial supply to anchor values, some expected that values might rise slightly higher if demand should broaden.

Serpentaria—The market had been without generally firm prices for some time past but during the past week offerings appeared locally on the basis of $3 to $3.25 per pound and mighty little root was in store at any figure. Collection was badly neglected last Summer.

Spikenard—Although not stocked in normal quantities, the call has been so light for such an extended period of time that some quarters reduced quotations to the basis of 45c. to 46c. per pound.

Seeds

Anise—Syrian material was shaded to the basis of 25c. to 26c. per pound. And although open quotations on Mexican goods were unchanged, some reason to believe that they might be shaded existed locally last week. During the period, 150 bags of Spanish merchandise reached here. That article in the past was the tops of anise quality in this market.

Caraway—Dutch futures were slightly lower at 17c. to 17¼c. per pound. During the period under consideration, 1,075 bags of the seed reached here from Rotterdam, Holland.

Cardamom—Bleached seed continued its advance and quotations reached $1.85 to $1.90 per pound for the bold variety. Guatemalan decorticated seed was lowered to $1.05 to $1.10, and less might be done on a firm bid.

Celery—Prices rose, here and in India. Spot quotations were raised to 23½c. to 24c. per pound, and futures were on the basis of 23c. to 23½c. late in the period. Arrivals from Bombay, India, totaled 60 bags.

Cumin—Italian seed was priced spot at 8½c. to 9c. per pound, and during the past week 300 bags reached here from Leghorn, Italy. Also, Buenos Aires, Argentina, supplied 275 bags. Quotations on Persian seed were higher at 25c. to 25½c. per pound.

Dill—Prices on dewhiskered material continued to decline and a bottom for the week was reached at 12c. to 12½c. per pound.

Flea—Husks were the item of dominant interest, and during the period 1,573 bags reached here from Bombay, India. India seems to have a corner on business in husks. At least, the French have yet to produce and offer here the husks of French black seed. Cable communication with France was very slow last week but should improve now that the strikes have been called off.

Poppy—Danish seed was down to 22c. to 22½c. per pound. Dutch was lowered to 24½c. to 25c. for spot, and to 25½c. to 26c. for futures. Turkish weakened in sympathy and prices were 19½c. to 20c.

Spices

Cinnamon—Spice due to arrive soon on this market was quoted lower at 33½c. to 34c. per pound. Actually spot goods held at 35c. to 36c.

Clove—Arrivals from Zanzibar totaled 2,736 bales. Spot quotations on Madagascar spice were reduced to 14¼c. to 14¾c. per pound. Futures did not change. No developments were noted in Zanzibar spice.

Ginger—African root turned easier and prices were shaded to 13½c. to 14c. per pound in a slow market. No. 3 Jamaica root in future position was quoted lower at 15¼c. to 15¾c.

Paprika—Heavy arrivals from Spain were noted. The total was 5,154 bags. Also, 800 bags came from Chile and 700 bags from Portugal. All prices on all paprikas were heavy and subject to depression.

Pepper—Heavy arrivals continued to supply this market with black pepper and spot quotations reflected the landing of cheaper replacement goods by dropping to the basis of 49c. to 50c. per pound. Nearby futures were off to 45c. to 46c., and distant futures stood conservatively lower at 41c. to 42c.

Peppermint Leaves Defiled Drug Manufacturer Warns

Allaire, Woodward & Co., drug manufacturer, Peoria, Ill., has issued a warning that 500 packages of its peppermint leaves now on the market contain quantities of belladonna. The adulterated peppermint leaves were distributed in Illinois, Wisconsin, Ohio, Kentucky, Indiana, Missouri, Kansas, New York, Pennsylvania, and possibly in adjoining states, the firm said. The packages in question, which the firm is trying to recover, bear the serial numbers 88 OL 46 and 33444 on their labels.

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Essential Oils, Other Aromatics

The essential oils and aromatic chemicals markets held to generally firm levels last week, and there were some indications of a moderate tightening of prices. The weekly price index was unchanged from the previous period and was up 4.5 points over the figure for last month. It was well under that for the corresponding period a year ago, however.

There were two advances among the essential oils and three reductions. The aromatics were without change.

Some essential oils dealers saw signs of strengthening of prices, and attributed it to the fact that the "hold-out" on re-ordering was believed to be passed. Christmas buying was largely over, and most dealers, in both oils and aromatics, said the seasonal trading had been generally good. Easter was beginning to claim their attention and was expected to do so through the end of January. Materials used in the preparation of cosmetics, perfumes, flavors and candy were expected to be in heavy demand for at least the next six weeks. For the most part, dealers seemed well prepared to accommodate this market.

Chinese anise advanced last week and the new levels were considered as probably temporary because of doubtful factors in supply. Bergamot remained quiet, but for how long none would say. Citronella from Ceylon was still fluctuating and was expected to go on that way for some time yet. The Java, however, was quiet during the week.

Dillweed, of course, remained very tight. Prices during the period were unchanged, but that was by no means an indication that the oil had become stabilized. Some predictions were that the price range would advance by several dollars in a matter of weeks. There was a reasonably good demand for eucalyptus but in spite of this the 70-80 percent showed a slight price drop. Nutmeg, distilled, was off somewhat as to price, although the market was fairly strong, with supplies not any too heavy. Vetiver, both Bourbon and Haitian, came down in price as the result of a somewhat lessening demand.

Dealers were in a good position to supply most items, and those of foreign origin seemed to be coming in quite freely. Shipments of 16 different essential oils, some of them in heavy quantities, arrived in New York from various parts of the world during the week.

Market Trends

Prices Advanced

Anise oil, Chinese, 15c. per lb.
Citronella oil, Ceylon, 5c. per lb.

Prices Reduced

Eucalyptus oil, USP, 70-80%, 5c. per lb.
Nutmeg oil, distilled, 20c. per lb.
Vetiver oil, Bourbon, $1.50 per lb.
Haitian, $1.50 per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
151.7	151.7	147.2	227.0

(For Current Prices see Page 9)

Essential Oils

Anise—The Chinese oil last week increased in price on both the inside and outside of the range. The lower figure advanced from the previous listing of 75c. a pound to 90c., and the outside price went up from $1.15 to $1.25. Dealers in New York reported receiving a considerable number of orders, but supplies were said to be none too plentiful. Availability of the product at the source was believed to be satisfactory but the difficulties lay in the money situation and in bringing the product to this country. Foreign exchange troubles were causing one of the difficulties. Dealers felt that shipping tie-ups were also responsible for a tightening of supply and there were reports, as there frequently are, that gangs of raiders were again active in the hinterlands of China and were stealing large parts of the shipments en route to the distribution points. A few months back, before the price of the oil began to climb, dealers laid in fairly good stocks and some of them reported that they were still well supplied, although they could not guess how long their goods on hand would last.

Bergamot—The natural Italian oil took on a firmness last week after a previous period of fluctuation. It continued to be quoted at $5.35 to $6 but, what with the disturbing conditions in Italy, no one would venture a guess as to how long this situation would prevail. The artificial showed no change from the last listing of $3.50 to $4.25. Seventy-eight cases of the oil arrived in New York last week from Genoa.

Caraway—There was a dull market for this oil as to price developments last week, and the only item of interest was the arrival of six casks of the product from Rotterdam. Prices ranged from $5.50 to $6.50.

Cinnamon—Twenty-two drums of the leaf came into this country during the period under review from Mombasa, Africa. Otherwise, the market was without particular feature. Prices were reported unchanged and the supply and demand situation held to about its previous position.

Citronella—The Ceylon oil continued its fluctuations on the New York market last week, and no one could predict when it might reach a level of stability. During the previous week it went down 5c. a pound on the inside of the range but last week it climbed again by the same amount. The change brought the inside figure to 80c. a pound, but there was no difference in the higher price of $2.75. The Java oil continued in a quiet period and was still being quoted at $1.25 to $4.75. Demand for the oil from both sources was said to be good. The Java was reported to be in good supply but it was said that the stocks of the Ceylon did not quite measure up to the same level. Sixty-five drums reached New York from Singapore, Ceylon and Haiti.

Clove—The market for the USP oil last week was regarded as firm and supplies were adequate to fill normal ordering. The price range of $1.30 to $1.70 remained unchanged although some dealers felt that the inside price was a bit too low and were inclined to place their own quotations nearer to the neighborhood of $1.40. Some oil was even going a bit higher than that and was still considered to be selling at a good average price.

Coriander—This oil continued to stay in a very tight position on the New York market last week. Dealers had been discouraged for some time by the difficulties with supply and were just about convinced that it would be a long time before they would again see adequate stocks of it. The offerings from Russia were negligible at best and therefore the price was high and showed all likelihood of remaining that way. Quotations during the week ranged from $28 to $35. This represented no change from the previous listing although it did reflect the steady climb that the oil had been making for several months.

Dillweed—Dealers who had anything resembling good supplies of this oil on hand last week regarded themselves as extremely well situated. Since there can be no new supplies brought in until the next crop season in August, stocks of the oil were becoming more precious every day, and it was considered a better than even bet that the price would go up by several dollars within the next month or six weeks. Since production was only about 50 percent of normal during the past season, dealers who laid in heavy supplies were crediting themselves with a good deal of foresight and plenty of luck. Demand remained strong and showed all signs of continuing that way. Quotations were still placed at $6.25 to $7.40, but there was no guarantee that they would remain at that level for very long.

Eucalyptus—The 70-80% oil took a drop of 5c. a pound on the inside of the range last week to establish a new lower quotation of 90c. The outside remained firm, however, at $1.30, although in some quarters it was felt that this was a bit on the high side and a good deal of the oil was being sold for less. Demand continued at a steady pace, mostly from pharmaceutical and soap manufacturers. Supply was at fairly good levels, and about adequate to accommodate normal ordering.

Juniper—The berry oil, domestic, remained in an unchanged position as to price last week. Quotations were still $6 to $12.50. Some dealers reported that they were without stocks of the item. The imported USP was in a similar position as to price and was still being quoted at $7.50 to $12. Ten drums of the oil reached New York from Malaga, Spain.

Laurel—The market for this oil remained without particular feature last week and quotations were still listed at $20 to nominal. A number of dealers reported that they had no stocks on hand.

Lavender—There were no reported price changes for the various types of this oil during the past week, and the only item of interest was the arrival in New York of 50 drums of oil from Barcelona, Spain. The spike was represented by the arrival of six drums from Alicante, Spain.

Lemon — There were no price changes noted during the period under review for

For Late Market Developments, See Page 4

this oil, nor were there any noticeable changes in the supply and demand picture. One drum came into the country from Port au Prince, Haiti; 29 half cases from Oran, Africa, and 24 quarter cases, also from Oran.

Lemongrass—Six drums from Cochin, India, and two from Port au Prince, Haiti, reached the New York market during the past week, but otherwise there was no real change regarding the oil. A firmer tone was said to prevail, but there were still irregularities regarding spot prices.

Lime — Pricewise, the market was unchanged for the various types last week. Dealers in New York reported receiving 25 cases of the oil from Kingston, Jamaica; one drum from Roseau, Leeward Islands, and six cases from Saint Lucia, Windward Islands.

Mandarin—The Italian oil seemed to have reached a stable level, at least temporarily, last week. It continued firm after previous fluctuations and was being quoted at $8.50 to $10 per pound. Conditions in Italy made for some uncertainty as to supply but demand was not great enough to cause any real trouble. The Brazilian oil was also firm as to price and was being quoted at $5.75 to $8.40.

Nutmeg — Perfumers and flavor makers were making fairly strong demand for the distilled oil last week. Supplies, although adequate for average orders, were said to be none too plentiful. Despite this strengthening condition one dealer in New York reported a new low inside price of $5 per pound, which was 20c. under the price last listed. The outside, however, showed no change at $8.75.

Orange — There were no new developments noted for this oil during the past week, although 800 cases of the Brazilian product reached dealers in New York from Santos.

Palmarosa—This oil experienced its second quiet week during the period under review when it remained at $6 to $9, after having taken a slight drop a short time before. Supplies were reported to be still at a fair level.

Pennyroyal—Both the domestic and imported oils were largely without feature on last week's market. Prices were reported unchanged, although some dealers said they were without stocks of the domestic product. The only item of interest was the arrival in New York of four drums of the oil from Alicante, Spain.

Peppermint—There were no changes in price reported during the past week for either the natural or redistilled USP. Supplies were at reasonable levels and demand was reported to be strengthening somewhat. The natural was listed at $7.80 to $8.75, and the redistilled at $8.35 to $9.25.

Petitgrain—The market for this oil was without feature last week except for the arrival of four drums in New York from Port au Prince.

Pimento — Two drums of the leaf oil reached New York from Kingston, Jamaica, last week, but otherwise there was little of interest regarding this product.

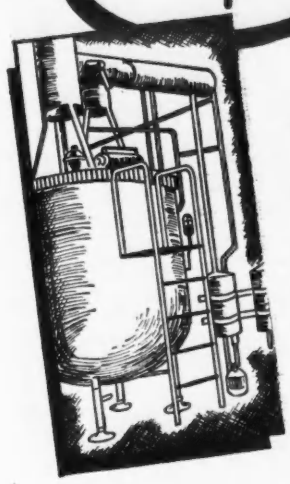
Rosemary — The market for both the Spanish, technical, and the USP was without particular feature during the week just past. The oil of Spanish origin had shown some tendency to drop in price a short time back but that movement seemed to have been checked and the market remained quiet. The Spanish was being quoted at 90c. to $1.50 and the USP at $1.15 to $1.60. Thirty-seven drums came into New York from Alicante, Spain.

Sandalwood—Although there were reports of fluctuation in price for the NF Mysore, a check with reliable sources in New York last week showed that the oil was still being quoted at $13.75 on the inside. The outside remained at the previous listing of $22.50. The product was said to be in a tight position as to supply because of communal disturbances in India. Demand appeared heavy.

Spearmint—This oil was being sold for $8 or more a pound on the average during the past week, although there were a few dealers who reported it as low as $7.50. Others, however, were as high as $10.

Sweet Birch—The northern oil continued to be quoted at $4.50 to $8 last week, although the inside figure was regarded as a bit on the low side. The item was said to be moving slowly. The southern oil was quoted at $2.50 to $3.25, although the average bottom price was probably closer to $2.75.

Vetiver — The Bourbon oil came down from $31.50 to $30 on the inside of the range last week. This was a fairly cheap price, however, and a good deal of the oil was being sold at about $2 a pound higher. There was a fairly good demand, but it was not steady. Some supplies were reported afloat. The Haitian oil dropped from $28.50 to $27 on the inside of the range. It was said that there were a great many inquiries for the oil, but demand remained spasmodic. Supplies were fair, and probably sufficient to satisfy the demand. Two drums of the



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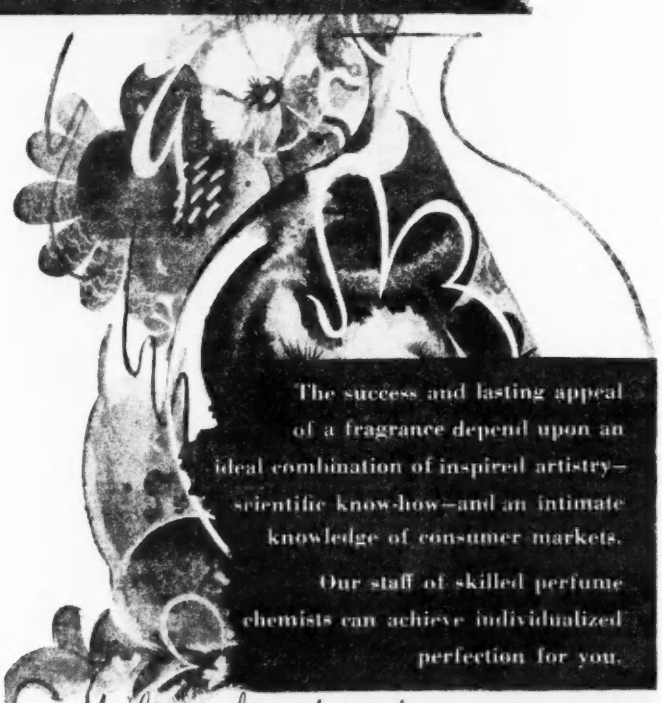

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Haitian reached New York from Port au Prince.

Aromatic Chemicals

Bromstyrol — The market for this item remained quiet during the period under review. Although it was listed at $4.85 to $6.25 the average price was somewhat more than $5. Demand continued slow, although there were sufficient supplies for normal buying.

Heliotropine—This product, in crystals, experienced a quiet week after advancing in price during the previous period. It was quoted at $3.25 to $4. Demand was said to be about fair, but there were adequate supplies of it on hand and few houses expected they would have any trouble in filling orders.

Musk—Difficulties with the coaltar situation were still making it difficult to obtain the ambrette last week, and dealers would not hazard a guess as to when this situation might be expected to improve. The item, when available, was being sold at $8 to $14.25. The ketone and xylol were in a different position, however, and dealers reported that there was an excellent demand for both and that there were supplies available to fill all orders.

Safrol—There was no difficulty in obtaining materials from which to make this item, dealers said, and the supply outweighed the demand, although there were some small orders for it. The range was still 95c. to $1.45.

Vanillin—Flavor and candy manufacturers were making heavy demand for this item during the past week, and some requests were coming in from the perfume industry. The material was still in short supply, however, and there was some difficulty in filling orders. There were no reported changes in prices.

Rallet Corp. Names Sanders

Rallet Corporation, perfume manufactaurer, New York, has appointed C. Ray Sanders managing director, effective January 1. Mr. Sanders was formerly sales manager of the chain and wholesale divisions of Hudnut Sales Corporation, New York.

Glass Container Shipments Steady

The total shipments of narrow-neck glass containers in October were 5,704,706, as compared with 5,676,843 in September, according to the Bureau of the Census. In this category, the amount used for medicinal and health purposes was 989,088 in October, against 945,217 in September; chemicals 501,219 in October, against 389,880 in September; toiletries, 411,922 in October, against 364,253 in September.

The total shipment of wide-mouth glass containers in October was 3,064,818, as compared with 3,103,813 in September. In this category, the amount used for medicinal and health was 264,251 in October, against 228,838 in September; chemicals, 87,902 in October, against 61,862 in September; toiletries, 129,645 in October, against 107,040 in September.

Essential Oil Ass'n

—*Continued from page 7*

citronella oil, Ceylon, and oil of ginger; Alfonso Fiore, of Givaudan, citronella oil, Java; Arthur Downey, of Magnus, Mabee & Reynard, Inc., copaiba oil and pure citral; Edward Langenau, of Fritzsche Brothers, Inc., geranyl acetate, and Ross LeBaron Daggett, of George Lueders & Co., geraniol and citronellel.

Ray C. Schlotterer, managing director of the association, presided at the session. Following the presentation of each set of specifications, the reports were discussed by the entire gathering before formal adoption. They set forth such factors as name, source, botanical nomenclature, preparation, physical and chemical constants, descriptive characteristics, types of containers to be used and methods of storage.

Dr. Kunz traced the difficulties encountered in setting up standards for the various products. "Beginning with Brazilian rosewood, petitgrain Paraguayan, spike lavender and hydroxycitronellal for which standards and specifications were adopted two years ago," he said, "we continued our studies adding to this list lemongrass oil, terpineol, terpinyl acetate and heliotropin.

"In addition, it is to the achievement of the scientific section that one of the most difficult problems facing it has been solved, and that is the drawing up of specifications for oil of citronella Ceylon. You are all familiar with the extensive litigation that has gone on with respect to this material and the various proposals that have come from this country and abroad for a method of testing for the presence of mineral oil in oil of citronella Ceylon. The adoption of our specifications and of the analytical method contained therein will surely put an end to disputes concerning this oil, and will lead to better commercial relationship between the buyer, seller, and any government authorities that may be concerned.

"During the coming year, I am confident that the scientific section will continue its successful progress and will establish many new standards, some of which are already under study. During the coming year, we anticipate that we will be able to adopt specifications covering aldehyde C-10, geranium Bourbon, oleo resin black pepper, ho oil, and methyl anthranilate."

Trade Briefs

Illinois Testing Laboratories, Chicago, has appointed Alfred C. Baechlin sales representative for Phoenix, Ariz.

Lakeside Laboratories, Inc., pharmaceutical manufacturer, Milwaukee, has appointed L. W. Frohlch & Co., New York, its advertising agency.

Lentheric, Inc., has appointed Mrs. Ruth Hammer director of publicity. She was formerly director of fashion promotion and publicity with Lord & Taylor.

E. R. Squibb & Sons, New York, has called a meeting of common stockholders for January 5 for the purpose of authorizing 120,000 shares of serial preferred stock of no par value.

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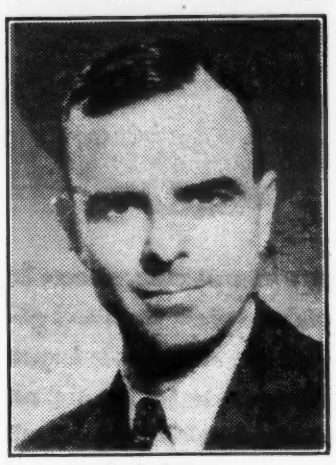
Tupper Heads Cleveland Drug and Chemical Club

The Cleveland Drug and Chemical Club has been formed by executives of that city's leading manufacturers of pharmaceuticals, drugs, chemicals, cosmetics and allied products, with T. C. Tupper, of Monsanto Chemical Company, as president. The purpose of the organization was said to be to act as a clearing house for scientific and trade information of benefit to all members. Other officers elected were:—



T. C. Tupper

First vice-president, J. H. Rose, Oxford Products, Inc.; second vice-president, George E. Burke, Strong Cobb & Co., and secretary-treasurer, William L. Gusman, Bio-Chemical Products, Inc. The executive board is made up of T. B. Chadwick, Charles Pfizer & Co.; James F. Shumaker, Fritzsche Bros., Inc.; D. H. Langel, Marlo Products Company; R. A. Shamel, Mallinckrodt Chemical Works; H. R. Martinson, Standard Drug Company; Charles Blazier, McKesson & Robbins, Inc., and A. S. Lowe, Oxford Products, Inc.

Guerlain Upheld by High Court in Fair-Trade Case

OPD Washington Bureau

The Supreme Court of the United States last week refused to quash an injunction secured by Guerlain, Inc., from the New York Supreme Court prohibiting F. W. Woolworth Company from selling Guerlain perfumes at prices below Guerlain's minimum fixed in its fair trade law contract.

The perfume had been rebottled in tiny vials containing about one-seventieth of a dram by Nips, Inc., and sold by Woolworth at 10 cents each. The fair trade contract of Guerlain fixed the minimum price at $1.60 for "one dram or less." Neither Woolworth nor Nips were signers of the fair trade contract.

The lower court's ruling which the Supreme Court refused to disturb held that even though the price of a dram of the perfume purchased from Woolworth at 10 cents a vial would figure out to $7 or far in excess of the minimum provided for in the contract, the provision of the contract was binding and Guerlain was entitled to an injunction.

Givaudan-Delawanna to Offer New Aromatic Specialties

Jacques Riedweg, a director of Givaudan & Cie, Paris, has returned there from the United States where he laid the basis for the introduction to the American market, through Givaudan-Delawanna, Inc., New York, of several new Givaudan aromatic specialties that are now being used abroad.

Trade Briefs

M. V. C. Labs, Inc., Toledo, has adopted a completely re-designed package for its "Miraglo" nail polish.

E. R. Squibb & Sons, New York, recently moved its San Francisco branch office from 608 Folsom street to 690 Fourth street.

William S. Merrell Company, pharmaceutical manufacturer, Cincinnati, has opened new distribution depots in Atlanta, Ga., and Bloomfield, N. J.

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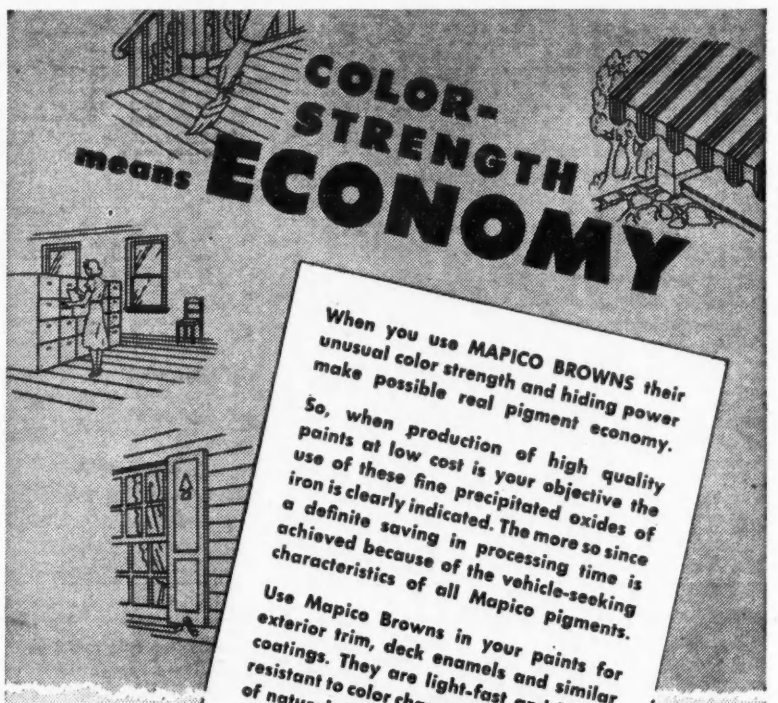

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Protective Coatings Materials

Earlier rumblings of expected increases subsided last week, as the protective coatings market was lulled into a pre-Christmas calm. Amid the prevailing quiet, the sole price movement occurred in shellac and naval stores.

Prime pigments were uniformly firm during the week. The supply situation for lead pigments was reported to be a trifle easier, since painting operations were undergoing their perennial slack season. Though most producers said that they had enough material to meet requirements of regular customers, they pointed out that the overall supply situation still faced hard times. Key to this condition was said to be dwindling pig lead stocks, which were expected to continued low for some months to come.

Synthetic resins remained on a par with previous listings, as long-awaited advances in alkyds again failed to materialize. The increases on dibutyl phthalate, listed recently by two leading suppliers, produced no change in schedules of other makers last week. However, there were opinions expressed in some quarters that other producers would follow suit shortly.

Firmness marked a variety of miscellaneous products, including asbestos, casein and glue. Nevertheless, a stiffening in the shellac market resulted in 2c. per pound boosts for lemon No. 1 and lemon No. 2 grades. Supply-wise, shellac continued tight, with superfine said to be in a slightly better position than other orange lacs. Stearate producers, at the same time, revised earlier opinions of expected increases, as tallow declined steadily.

Pinetar and pinetar oil were advanced 2c. per gallon by a leading supplier of naval stores, but other marketers held to previous quotations. Declines were likewise posted on the Savannah market for both gum turpentine and various grades of gum rosin.

Market Trends

Prices Advanced

Shellac, lemon, No. 1, 2c. per lb.
lemon, No. 2, 2c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
182.2	182.2	182.2	162.9

(For Current Prices see Page 9)

Prime Pigments

Black, Bone—Production of this pigment in October, according to the Bureau of Census, totaled 1,085 short tons, compared with 1,085 short tons in September, 1,065 short tons in August and 1,169 short tons in October, 1946. Shipments in October amounted to 789 short tons, opposed to 1,036 short tons during the preceding month, 1,043 short tons in August and 891 short tons during October of last year. Stocks at the end of October were recorded at 1,375 short tons, against 1,079 short tons in September, 1,030 short tons in August, and 2,043 short tons in October, 1946.

Black, Carbon—October production, as reported by the Bureau of Census, was listed at 113,921,000 pounds, compared with 112,199,000 pounds during the preceding month. The January-October estimated output was listed at 1,089,875,000 pounds. The October output total was composed of 57,282,000 pounds of contact black and 56,639,000 pounds of furnace black. Shipments in October totaled 109,505,000 pounds, opposed to 100,295,000 pounds in September. Shipments during the first ten months of 1946 amounted to 1,102,817,000 pounds. The October shipments' total was comprised of 58,552,000 pounds of contact black and 50,953,000 pounds of furnace black. Stocks at the end of October were listed at 61,256,000, against 56,840,000 pounds on September 30. Stocks on hand during the first ten months, adjusted for losses, were set at 61,256,000 pounds. Supply for October was made up of 7,111,000 pounds of contact black and 54,145,000 pounds of furnace black. Preliminary export figures during October totaled 20,625,000 pounds, against 32,470,000 pounds in September and 280,680,000 pounds for the January-October period.

Earth Umber—Imports during the week were registered at 2,610 bags of this material from Larnaca.

Iron Oxide—Imported during the week were 6,957 bags of this pigment from Malaga and 128 barrels of the same material from the identical port of call. The price structure of this material continued firm and demand remained heavy. Supplies were still tight, with no relief of the currently limited situation in sight.

Lead Pigments—Major producers of these materials last week indicated that supplies, though still somewhat low, were sufficient to meet reasonable demands from regular customers. Demand was reported to have fallen off, owing largely to the slackening of paint operations during the winter months. However, it was pointed out that pig lead stocks were low and would continue to be so for some months to come. Prices were firm during the week, and the general view in the market was that they would remain so, at least, through part of the first quarter of 1948. Current quotations follow:—basic sulphate blue lead, 15¼c. per pound, barrels, carloads, freight allowed; 15¾c. per pound, l.c.l.; basic carbonate white lead, 16c. per pound, bags, carlots, freight allowed; 16¼c. to 16½c. per pound, l.c.l.; basic sulphate white lead, 15¼c. per pound, bags, carloads, freight allowed, and 15¾c. per pound, l.c.l. During the week, basic silicate white lead in bags was being offered on the market at 18½c. to 19¼c. per pound, carloads, freight allowed, and 19c. to 19¾c. per pound, l.c.l., same basis. The smaller lots price on litharge recently leveled out at 17.3.5c. per pound, barrels, freight allowed.

Zinc Pigments—July production of zinc oxide, lead-free and leaded, as reported by the Bureau of Mines, totaled 20,791 short tons, compared with 18,660 short tons in June and 139,124 short tons for the first seven months of 1947. Shipments in July were registered at 19,648 short tons, opposed to 18,873 short tons in June and 142,564 short tons during the January-July period of this year. Stocks at the close of July amounted to 15,903 short tons, against 14,760 short tons on June 30. Production of zinc dust during July totaled 2,182 short tons, compared with 2,260 short tons in June and 17,110 short tons for the first seven months of this year. Shipments during July were listed at 2,152 short tons, against 2,415 short tons in June and 16,590 short tons for the January-July period. Stocks on July 31 were 1,504 short tons, compared with 1,523 short tons at the end of June, 1947.

Fillers and Extenders

Calcium Carbonate—Imports last week totaled 2,400 bags of chalk and 750 tons of chalk from London, 410 bags of whiting from Antwerp and 400 bags of witherite from Liverpool. Market-wise, this section remained unchanged during the period under review.

China Clay—The imported, white lump grade in bulk last week was selling at $16 to $35 per net ton, carlots, ex Eastern docks. The powdered material in bags, carlots, ex dock, was quoted at $45 per ton, while the l.c.l. price, ex warehouse, ranged from $50 to $55 per ton.

Magnesium Silicate—The supply situation remained virtually unchanged last week, with limited stocks prevailing. Demand was still strong and prices were firm. Imports last week included 2,601 bags of talc from Genoa.

Synthetic Resins

Alkyd Resins—This section was without price feature during the week, as long-expected increases failed to materialize. The supply situation continued short, as

Paint, Varnish, Lacquer Sales: October

The value of paint, varnish, lacquer and fillers in October, 1947, as reported by 680 establishments to the Bureau of Census, was $86,190,334. Details of sales reported by these establishments, with comparative data for 1946 and 1945, follows:—

	Total sales reported by 680 establishments.	Classified sales reported by 580 establishments—Trade-sales of paint, varnish, and lacquer.	Industrial sales—Total.	Industrial sales—Paint and varnish.	Industrial sales—Lacquer.	Unclassified sales reported by 100 establishments.
1947—October	$91,528,402	$47,517,970	$34,957,757	$27,039,029	$7,918,728	$9,052,875
Total, 10 months	897,495,234	482,625,800	293,395,673	245,654,561	75,274,802	93,790,011
1946—October	69,991,323	34,936,858	28,218,877	20,795,577	7,423,100	6,835,788
Total, 10 months	653,461,203	353,135,605	233,300,549	93,011,647	60,541,550	66,825,054
1945—October	57,540,413	31,017,695	20,820,454	15,977,434	4,843,020	5,702,264
Total, 10 months	570,716,663	259,844,547	234,437,206	178,185,103	56,252,103	56,434,910

For Late Market Developments, See Page 4

CROSBY
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CROSBY CHEMICALS offers for your selection four grades of Steam Distilled Pine Oil, XH, STANDARD, AMBER and SPECIAL, designed to meet practically all Specifications, Products and Processes that require a Steam Distilled Pine Oil.

TYPICAL ANALYSIS

	XH	STANDARD	AMBER	SPECIAL
Specific Gravity 15.5C	0.945	0.940	0.936	0.932
Refractive Index 20C	1.483	1.483	1.482	1.481
Unpolymerized Residue	0.4%	0.4%	0.8%	2.5%
ASTM Distillation				
5%	215C	210C	206C	197C
95%	220C	220C	220C	222C
Moisture	0.2%	0.4%	0.5%	0.5%

PROPERTIES

Grade	Color	Tertiary Alcohols	Phenol Coefficientt
XH :	"Water White"	73%	6.2
STANDARD:	"Water White"	66%	5.5
AMBER :	"Straw Yellow"	58%	5.0
SPECIAL :	"Water White"	*73%	3.7

* Total Alcohols.
† On a concentrate containing 80% Pine Oil (F. D. A. Method).

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DE RIDDER, LOUISIANA

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JEFFILAC solutions are available with nitrocellulose viscosities from 5-6 second down to 1/4 second.

We offer to makers of lacquers and makers of protective coatings JEFFILAC Nitrocellulose Solutions which are not merely dissolved nitrocellulose but are balanced solutions with alcohols, ketones, esters, and diluents in proper proportion. The boiling points are coordinated, so that thinning, blending and further formulations can be conducted with ease and minimum of cost and effort. ALL JEFFILAC SOLUTIONS ARE POWER FILTERED.

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demand remained heavy. A major producer of these resins announced the introduction of new product designed specifically for baking finishes in combination with amino resins. A short oil, oxidizing type alkyd, this resin was said to have outstanding toughness and adhesion, good color and color retention, good compatibility with normal pigments and excellent characteristics as a grinding medium. In addition, this same resins manufacturer announced the improvement of an old short oil, nonoxidizing type alkyd, which was said to provide maximum color retention in white baking finishes and improved alkali resistance.

Cellulose Acetate and Mixed Ester Plastics—October shipments and consumption, as reported by the Bureau of Census, totaled 7,903,343 pounds, compared with 5,436,922 pounds in September. These figures include fillers, plasticizers and extenders. Molding and extrusion materials formed the major part of these totals with 5,104,501 pounds in October, as against 4,152,506 pounds during the preceding month.

Phenolic Resins—Shipments and consumption for October were 28,129,031 pounds, compared with 27,262,082 pounds in September, as reported by the Bureau of Census. The major part of these totals was formed by molding materials, which were listed at 17,886,441 pounds in October and 17,408,459 pounds in September, including fillers, plasticizers and extenders.

Urea and Melamine Resins—The Bureau of Census reported shipments and consumption in October at 6,719,964 pounds, compared with 5,723,271 pounds in September. A major producer of melamines, meanwhile, has introduced a new melamine-formaldehyde resin, claimed to cure faster and hence shorten baking time, to save up to 15 percent amino resin at equal baking time and to provide considerably better alkali resistance.

Vinyl Resins—The Bureau of Census shipments and consumption figures for October were registered at 18,039,626 pounds, compared with September at 15,125,255 pounds.

Lacquer Materials

Phthalates—No further changes in dibutyl phthalate were noted last week following recent increases for that product by two leading makers. Diethyl and dimethyl phthalate, which were unaffected by the previously-announced advances, were likewise unchanged last week. Current quotations of diethyl phthalate follow:—31½c. to 32¾c. per pound, drums, carloads, delivered; 32c. to 33c. per pound, less carlots, same basis, and 30c. to 31½c. per pound, tanks. The supply situation for all phthalates during the week showed no appreciable change during the period under review from levels of previous weeks. Demand also was comparable to former buying.

Miscellaneous Materials

Asbestos—Imports during the week totaled 1,234 bags from Lourenco and Marques. Price-wise, the market remained stable following recent increases. Supplies

Water Paint Sales: October

(Formerly Plastic Coldwater Paint Sales)

Sales of resin emulsion paints, plastic-texture paints, coldwater paints and calcimines for October, 1947, as published by the Bureau of Census, are based on reports submitted by 47 manufacturers, of whom nine reported data for resin emulsion paints exclusively. Nine of the remaining 38 manufacturers also reported sales for this product, bringing the total number to 18 for resin emulsion paints. The data for plastic-texture paints, coldwater paints and calcimines are based on reports received from 38 identical manufacturers who accounted for approximately 87 percent of the total value of these materials. The October statistics, as compared with those of the corresponding month in 1946, follow:—

Plastic-Texture Water Paints

	Pounds	Value
*Total	2,535,328	$208,535

* Includes paste and dry powder plastic-texture water paints which cannot be shown separately without disclosing the operations of the individual companies.

Resin Emulsion Paints

	Gallon	Value
Interior	643,717	$1,289,703
Exterior	12,553	33,631

Coldwater Paints

	Pounds	Value
Exterior, lime or cement-bound	4,033,825	352,109
casein-bound	137,223	10,427
Interior, casein-bound, paste or semi-paste	[1]209,195	315,813
dry-powder form	583,723	53,495
glue-bound	225,201	10,025

Calcimines

	Pounds	Value
Hotwater	[2]	[2]
Coldwater	[2]	[2]

Sales of these products for October, as compared with those for the corresponding month last year, were as follows:—

		October 1947	October 1946
Plastic paints	lbs.	2,535,328	1,985,841
	value	$208,535	$134,904
Resin emulsion paints	gals.	656,270	[2]
	value	$1,333,339	[2]
Coldwater paints	value	8742,456	$815,897
Calcimines	lbs.	[2]	1,337,667
	value	[2]	869,735

[1] Gallons.
[2] Not available.

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remained on a par with previous weeks, as did demand.

Casein—The Bureau of Agricultural Economics reported the estimated production in October at 1,750,000 pounds, a gain of 58 percent over the 1,109,000 pounds a year earlier. This also represented a 33 percent increase over the five-year October average. During the first ten months of this year, casein production totaled 29,583,000 pounds, a gain of 104 percent over the 14,476,000 pounds for the corresponding period in 1946 and 17 percent over the first ten months' average for 1941-1945. Manufacturers' stocks of dry casein on October 31 totaled 2,450,000 pounds, a decline of 21 percent from the figures of a year ago. Stocks on hand on October 31, 1946 were 3,100,000 pounds and 8,650,000 pounds on the same date in 1945. The market remained firm last week at previous quotations although buying, particularly of the imported acid-precipitated material, was said to be rather strong. Imports during the week totaled 840 bags from Antwerp and Buenos Aires.

Glue—Stocks of bone glue last week were said to be in better supply than they have been for some months, although still not in any condition that could be described as free. Producers were offering the material in less-carlot amounts during the week on prompt shipment. Hide glue continued tight, however, with no sign of any easing. Some material was said to be available, but not in any sufficient quantity to cope with the demand. Prices continued firm. The Bureau of Census production figures for October showed a total glue output of 14,666,095 pounds, compared with 12,003,464 pounds in September and 10,823,973 pounds in October of last year. The October, 1947, total was comprised of 8,512,421 pounds of bone glue and 6,153,674 pounds of hide glue. Shipments in October totaled 14,056,290 pounds, against 11,697,113 pounds during the preceding month and 9,021,723 pounds in October, 1946. The October, 1947, figure was comprised of 8,167,327 pounds of bone glue and 5,888,963 pounds of hide glue. Total stocks at the close of October amounted to 8,391,628 pounds, opposed to 7,881,958 pounds on September 30 and 9,977,776 pounds at the end of October, last year. The supply figures for October 31, 1947 were comprised of 4,260,863 pounds of bone glue and 4,130,765 pounds of hide glue. Imports during the week were registered at 384 bundles of gluestock from Porto Plata, 811 bags of ossein from Antwerp, 2,943 bags of bones from Buenos Aires and 400 bags of glue from Antwerp.

Gypsum—Imports of crude gypsum during the third quarter of this year were greater than in any such previous three-month period, according to the Bureau of Mines. By September 30, imports in 1947 had already exceeded the total tonnage of 1946. The apparent supply, which is a combined imports and production figure, set a new record of 2,424,857 short tons in the third quarter. Calcining plants increased their production 10 percent over that of the preceding period and 9 percent over the comparable period last year. Sales of uncalcined gypsum products increased, as did most of the building products made from calcined gypsum. Pottery plaster sales made the only gain (2 percent) in the classification of plasters for industrial uses. Compared with the third quarter of 1946, total board sales were up 15 percent, with lath and sheathing making gains of over 50 percent, while wallboard and laminated board declined. Imported last week were 906 bags of gypsum from London and Liverpool.

Shellac—A stiffening of the market here last week resulted in 2c. per pound boosts for lemon No. 1 and lemon No. 2 grades. Lemon grades were said to be particularly scarce, and there were reports that TN shellac was so tight that many suppliers were forced to hold up sales of this grade in order to keep their own bleaching operations going. Superfine was still said to be short, although somewhat eased from its tight position of recent weeks. The Calcutta market showed some slight strength late in the week. As for the Indian transportation problem, there were reports that the situation in that country has eased slightly in recent weeks. However, it was noted that ships were still arriving three to five weeks late with light shellac cargoes, facts which indicated that the transportation situation still was not all that it might be. Indian shipments of shellac in October totaled 19,368 packages, compared with 14,568 during the preceding month of this year. Seedlac exports amounted to 19,715 packages in October, a rise over the 13,174 packages shipped during September. Imports last week were registered at 470 bags of buttonlac from London and Calcutta, 650 bags of seedlac from Calcutta and 3,149 bags of shellac from London and Calcutta.

Stearates—A reversal in the tallow market last week caused many producers of these materials to revise their opinions on the future of stearate prices. With the 4c. per pound drop in tallow, many stearate manufacturers voiced the belief that quotations would probably either hold to current levels or decline, depending on the course of the tallow market. The trend of the tallow market itself during the week appeared to favor buyers rather than sellers.

Naval Stores

Pinetar—A major supplier of this material upped all but tankcar prices 2c. per gallon. Current quotations are:—39c. to 41c. per gallon, drums included, carlots, f.o.b. works, South; 40¼c. to 43c. per gallon, l.c.l., same basis, and 50¼c. to 52¼c. per gallon, l.c.l., ex-warehouse, New York. Tankcar listings remained unchanged at 30c. per gallon, works, South.

Pinetar Oil—A 2c. per gallon price boost was likewise applied to all but tank quantities of this material last week by a leading producer. Current market quotations are identical with those for pinetar.

Gum turpentine on the Savannah market during the week declined ¼c. per gallon to 64c. At the same time, gum rosin quotations declined 6c. to 53c. per hundredweight, the decrease varying with the grade. Grade F was down 25c. per hundred pounds, while grades G, H, I, K, M and N were off 53c. The higher grades were off lesser amounts, WG down 15c., and WW and X both 6c. per hundredweight lower. Rosin grades, B, D and E were unchanged throughout the week.

Savannah, Dec. 12.—Following is a record of the turpentine market for the week:—

	Bulk, gallons—Cents.	Sales.	Barrels—Receipts.	Shipments.	On hand.
Monday	64¼	160	212	206	9,763
Tuesday	64¼	...	...	...	9,763
Wednesday	64	160	67	156	9,674
Thursday	64	160	1	1	9,674
Friday	64	...	224	84	9,814

Savannah, Dec. 12.—Following is a record of the rosin market for the week:—

	Price per unit—Low of range quoted Mon.	Tues.	Wed.	Thurs.	Fri.
B	$6.50	$6.50	$6.50	$6.50	$6.50
D	7.75	7.75	7.75	7.75	7.75
E	8.00	8.00	8.00	8.00	8.00
F	8.75	8.72	8.65	8.53	8.50
G	9.03	8.72	8.65	8.53	8.50
H	9.03	8.72	8.65	8.53	8.50
I	9.03	8.72	8.65	8.53	8.50
K	9.03	9.00	8.65	8.53	8.50
M	9.03	9.00	8.65	8.53	8.50
N	9.03	9.00	8.70	8.53	8.50
WG	9.10	9.15	9.15	9.00	8.95
WW	9.26	9.26	9.26	9.20	9.20
X	9.26	9.26	9.26	9.20	9.20
	Barrels—				
Sales	245	180	250	400	300
Receipts	110	148	214	158	380
Shipments	...	...	...	500	...
Stocks	9,988	10,133	10,347	10,005	10,885

Hercules Offers Synthetic Resin for Printing Inks

A new synthetic resin, designed specifically for use in printing inks, is now being commercially produced by Hercules Powder Company. The resin, called "Pentalyn 802-A Pale," is said to enable production of overprint varnishes of improved initial color and reduced after-yellowing; and to impart better color in printing inks. It is designed to aid ink technologists to secure greater uniformity in ink vehicles based on phenolic-modified rosin esters.

Goodrich Names Heads Of Plastics Sales Div.

The B. F. Goodrich Company has named four managers of the various sections of its newly created plastic materials sales division. E. L. Byan has been named manager of sales for coated fabric, calendered sheet, coated wire products and playponds; William M. Gaston, manager of distributors sales; R. L. Hill, manager of sales for extruded and molded products, and N. P. Singleton, manager of sales for cast and calendered film, coated paper and packaging material.

When we say Continental cans serve *behind* the labels of America's finest products, we are not overlooking the labels, themselves. Those labels we *lithograph*, that is!

No doubt about it, Continental labels serve, too! They make packages attractive—easier to sell. A smart design, faithfully reproduced by modern lithography, stands out as effective point-of-sale advertising for the product.

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YOU may find that BARBER GILSONITE is the missing ingredient for which you have been searching—to improve an established product or perfect a new one. We will be glad to send you detailed information on its properties, typical analyses, samples and other data.

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National Lead Promotes Four Top Executives

The National Lead Company, New York, has appointed Alex Stewart director of research for its entire organization. Mr. Stewart has directed laboratory research for the parent company since April, 1938. The company also announced the appointment of Lloyd M. Wiles, plant manager of its MacIntyre development, as chairman of the mining committee, and the naming of Joseph H. Reid and Graham W. Corddry assistant managers of the titanium division.

Mr. Stewart joined the National Lead organization at its research laboratory in Brooklyn, N. Y., in 1908. In 1915 he left to work as a chemist with a linoleum concern, and two years later joined the C. L. Constant Company, mining engineer. He returned to National Lead in 1930 as a research development engineer and was made research director in 1933.

Mr. Wiles took charge of mining and milling operations of the St. Louis Smelting & Refining Company division of National Lead in 1942, and was made plant manager of the MacIntyre Development in 1944. The latter position will be filled by Frank R. Milliken, former assistant plant manager.

Mr. Reid entered the employ of the St. Louis Smelting & Refining Company division in 1927. He was subsequently transferred to the baroid division in 1936 and to the general offices in 1941. He was appointed chairman of the mining committee in April of this year. Mr. Corddry joined the titanium division in 1932 and was made its general sales manager in 1940.

Polyvinyl Alcohol, Acetal Resins Data Available

OPD Washington Bureau

Production methods used in manufacturing polyvinyl alcohol and polyvinyl acetal resins from polyvinyl acetate are described in two reports now on sale by the Office of Technical Services, Department of Commerce. The polyvinyl alcohol was used to produce plastics of unusual toughness and the acetal resins were used in hat sizing. Both reports were prepared by OTS investigator R. D. Dunlop and are based on visits to two German plants.

Mimeographed copies of the reports:—PB-78667, "The Production and Use of Polyvinyl Alcohol," fourteen pages; and PB-67587, "Production of Polyvinyl Acetals," eighteen pages, sell for 50 cents each and may be secured from OTS, Washington 25, D. C.

Croll-Reynolds Observes 30th Anniversary of Firm

Executives, employees and friends of Croll-Reynolds Engineering Company, manufacturer of steam jet vacuum equipment, New York, attended a dinner in the Commodore hotel on December 10 in honor of the thirtieth anniversary of the founding of the company.

Samuel W. Croll and Philip E. Reynolds, founders of the company, were each presented with a solid gold evactor containing three ounces of pure gold, miniatures of the smallest commercial Croll-Reynolds evactor, which in actual production weighs forty pounds. David H. Jackson, sales manager, was toastmaster.

Johns-Manville Corp. Buys Chicago Firm

Johns-Manville Corporation, New York, has purchased Van Cleef Bros., Inc., industrial and automotive products manufacturer, Chicago. The Chicago firm will continue to manufacture its line of products involving the use of crude and synthetic rubber, as well as such products as rubber cements, gasket shellac compounds and hydraulic brake fluid.

The personnel of the Chicago organization will remain intact, with Noah Van Cleef continuing as president and treasurer and Felix and Paul Van Cleef remaining as vice-presidents. No change is contemplated in the manufacturing, merchandising or distribution system of the firm.

CDIC Club Hears Titanium Pigments Talk

The Cincinnati, Dayton, Indianapolis and Columbus Paint and Varnish Production Club heard a talk on "Titanium Pigments in House Paints," by J. McGuffy, of Titanium Pigment Corporation, at its meeting on December 8 at Cincinnati. Mr. McGuffy discussed the various grades of titanium pigments available for use in house paints.

N.E. Paint Group Plans Xmas Party December 19

The New England Paint, Varnish and Lacquer Association will sponsor its annual joint Christmas party for the New England paint, varnish and lacquer industry at the Statler hotel, Boston, on December 19. The affair is open to all members of the industry and there is no restriction on the number of guests.

Trade Briefs

Nu-Enamel Corporation has appointed William K. Shaughnessy advertising manager.

W. P. Fuller Brawner, vice-president and treasurer of W. P. Fuller Company, paint products manufacturer, San Francisco, has been elected president of the San Francisco Chamber of Commerce for 1948.

Colgate-Palmolive-Peet Company has announced that two weeks salary will be paid to all employees of the company not on a regular commission or bonus basis who worked twelve out of the last eighteen months.

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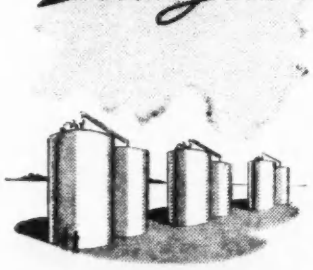

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Obituaries

Charles M. Barnett, jr.

Charles M. Barnett, jr., president and director of the Tankers Company, New York, died December 7 at his home in Westfield, N. J. He was forty-seven years old. Mr. Barnett was also a director and member of the executive board of the Royal Petroleum Company, partner in the Barnett Shipping Company and vice-president and director of the Camden Textile Corporation.

Joshua M. Chilton

Joshua M. Chilton, vice-president and a director of Archer-Daniels-Midland Company, died December 7 at his home in Minneapolis. He was fifty-nine years old. Mr. Chilton was in charge of the grain department of Archer-Daniels-Midland.

Elmer L. Knoedler

Elmer L. Knoedler, assistant general manager of the Lederle Laboratories division of the American Cyanamid Company, Pearl River, N. Y., died December 10 in Englewood hospital, Englewood, N. J. He was sixty-five years old. Mr. Knoedler had been associated with the Lederle division for the past six years.

Frank T. Lewis

Frank T. Lewis, former president of the Standard Margarine Company and the Shefford Cheese Company, subsidiaries of Standard Brands, Inc., died December 7 at his home in Indianapolis. He was sixty-five years old. Mr. Lewis retired two years ago but continued to act as a consultant for Standard Brands.

Joseph W. McFarland

Joseph W. McFarland, president and general manager of the National Gypsum Company, died December 8 at Halifax, Nova Scotia. He was fifty-five years old.

Mr. McFarland, a native of Massachusetts, went to Canada in 1912 as superintendent of the Ross Manganese Mines. In 1921 he became associated with the International Gypsum Company, which was later known as the Atlantic Gypsum Company and recently changed its name to the National Gypsum Company.

Lawrence G. Preston

Lawrence G. Preston, executive vice-president of the American Maize-Products Company, who had been identified with the corn refining industry for more than thirty-five years, died December 10 in New York. He was sixty-two years old. Mr. Preston had been vice-president in charge of sales for the company for sixteen years and was elected excutive vice-president last year. Previously, he had ben with Corn Products Refining Company and Penick & Ford Sales Company.

Frank C. Smith

Frank C. Smith, retired manager of white lead sales at the Chicago office of the National Lead Company, died December 2 in Pawatind hospital, Niles, Mich. He joined the Carter White Lead Company in 1897 and was its secretary when it was merged with National Lead in 1929. At that time he was moved to the Chicago office, where he remained until his retirement in 1934.

George G. Walsh

George G. Walsh, salesman for Thurston & Braidich, importer of gums, New York, died recently. He was forty-nine years old. Mr. Walsh had been associated with the import house for almost thirty-four years.

Edwin C. Wise

Edwin C. Wise, head of the nutrition department of the Upjohn Company, Kalamazoo, Mich., died December 7 in the University of Michigan hospital, Ann Arbor. He was forty-five years old. He had been with the company for twenty-one years.

W.J.U. Woolcock

W. J. U. Woolcock, secretary and registrar of Great Britain's Pharmaceutical society from 1913 to 1918, and later secretary and general manager of the Association of British Chemical Manufacturers, died recently at Welwyn, Herts., England. He was sixty-nine years old. Mr. Woolcock was president of the Society of the Chemical Industry from 1924 to 1926 and head of the government relations department for Imperial Chemical Industries, Ltd., until his retirement in 1944.

Hiland B. Harvey, one of the founders of the National Drug Company, Philadelphia, died December 8 in that city. He was eighty-nine years old.

William H. Rose, retired president of the Interstate Chemical Company, Jersey City, died recently at his home in that city. He was seventy years old.

Dr. Mae C. Schroeder, retired assistant director of the bureau of laboratories of the New York City Department of Health, died December 9 in Bellevue hospital. She was seventy-five years old. Dr. Schroeder had been with the department for twenty-eight years when she retired in 1935.

John C. Serre, vice-president of the Seaboard Oil Company, Fairfield, Conn., died December 8 in Danbury hospital, Danbury, Conn. He was sixty-seven years old.

Roger Shotwell, engineering draftsman for the Calco Chemical Division, American Cyanamid Company, died December 6 in Muhlenberg hospital, Plainfield, N. J., of injuries received when he was struck by an automobile. He was sixty years old. Mr. Shotwell had been associated with Calco for the past two years.

Arthur P. Van Gelder, superintendent of high explosives for the Hercules Powder Company, died December 10 at Wilmington, Del. He was seventy-four years old. Mr. Van Gelder had collaborated with Hugo Schlatter in the writing of "The History of the Explosive Industry in America."

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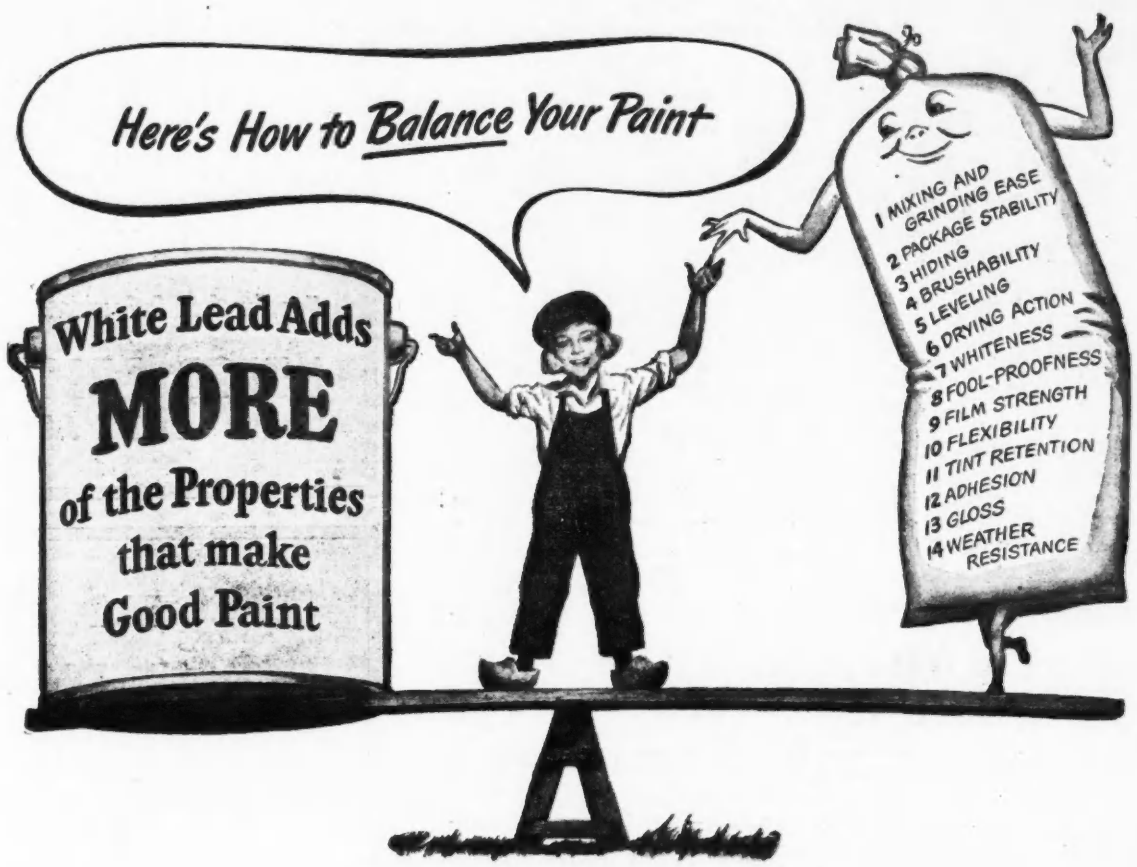

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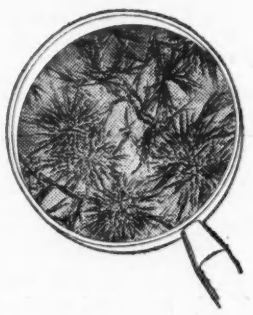

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Petroleum Derivatives

With additional companies in other areas capitulating to recent advances in California, East Texas and Gulf Coast crude oil, attention in this market centered about the onset of a general upward price trend in crude quotations.

Amid the flurry of announcements, major producers of lower district Pennsylvania crude during the week upped prices 50c. per barrel. Illinois crude was also up 50c., and other reports of increases continued to stream in throughout the week. There was still some strong resistance to the break in the market, but it was felt that a general realignment at the higher price level would become a reality within the next few weeks.

The impact of this upward movement in crude was already being felt in the derivatives market last week. Although prices of solvents and diluents were firm, major producers were unofficially agreed that the crude advances could not be absorbed at present levels, and that advances would be forthcoming within the next few weeks. On the basis of a general 50c. per barrel increase in crude oil, it was generally estimated that quotations on solvents and diluents would have to go up 1½c. per gallon. A major Ohio concern during the week upped quotations on motor fuel and other refined products 1½c. per gallon. Residual products were boosted 1¼c. per gallon.

It was felt that lighter fraction quotations would go up 1c. to 1½c. per gallon. A leading group 3 marketer of propane was reported as already having advanced his listing 1c. per gallon. Gasoline, fuel oils and other derivative products were likewise expected to be affected accordingly.

Solvents and Diluents

Cleaners' Naphtha—With the trend toward higher crude oil price levels becoming more evident, major producers of this solvent last week were unofficially agreed that they would be compelled to advance quotations on this material shortly. Although it was still somewhat early to determine the extent of the expected increase, the consensus of opinion was that, barring additional crude advances, this and other naphthas would rise 1½c. per gallon over current quotations. Despite such speculation, cleaners' naphtha during the week was firm on the East coast at 12½c. per gallon in tankcars, f.o.b. New York and New Jersey refineries. Meanwhile, the general supply situation remained tight. Some companies reported that they were keeping abreast of contractual obligations, but were in no position to accept new business. Demand, at the same time, continued strong as cleaning operations were running at peak capacity.

Protective Coatings Solvents—Following recently-announced advances on xylol and toluol, the former up 1½c. per gallon on contract and the latter advancing a similar amount on spot on December 1, producers of these aromatic solvents during the week said that they could anticipate no further price rises for the time being. It was pointed out, however, by makers of petroleum xylol and toluol that this forecast was based on current crude oil price levels, including the recent and expected advances. Supply-wise, conditions were said to be tighter for these materials than for the entire range of solvents and diluents. Furthermore, it was expected that the aromatics and butane would get scarcer in future months, influenced as these products are by the increasing allocation of crude petroleum stocks by the government for use in aviation gasoline.

..Lacquer diluents continued in strong demand during the week, as producers of industrial lacquer finishes maintained heavy production schedules. Generally speaking, the supply situation was said to be fair, with sufficient amounts of the material available to meet most current requirements. Certain scattered consumers, however, were still reporting difficulty in obtaining shipments, but this was interpreted as due to local transportation bottlenecks rather than to an insufficiency of the material. Predictions of price increases, estimated at 1½c. per gallon on the basis of current crude quotations, were also viewed likely soon for lacquer diluents. Quotations on this material last week, however, remained stable at 14c. per gallon, East coast, tankcars, f.o.b. New York and New Jersey refineries.

The firmness of both mineral spirits and Stoddard solvent last week at 12½c. per gallon, East coast, was viewed by producers as only of temporary duration. It was believed in most informed quarters that price schedules would be advanced for most materials by the first of the year. Supplies were still said to be on the short side for both products, as demand maintained its previously active pace.

Quotations on V.M. & P. naphtha last week were listed at 13½c. per gallon, East coast, tankcars, f.o.b. New York and New Jersey refineries. A new price, estimated at 15c. per gallon on the basis of current crude prices, was viewed imminent by most major producers. It was explained that the present crude oil advances would have to be reflected in schedules of this solvent. Demand was still said to be at former levels, and supplies were reported generally tight, although some suppliers said that they were meeting all contractual commitments on time.

Rubber Solvents—An expected advance in this section was likewise expected shortly in view of the apparent upward trend in crude oil. The supply situation remained short, despite a continued slight falling off in demand. The East coast price on this material last week was quoted at 13½c. per gallon, tankcars, f.o.b. New York and New Jersey refineries.

Market Trends

Prices Advanced

None

Prices Reduced

None

(For Current Prices see Page 9)

Lighter Fractions

Butane—The general crude oil advance dominated this section as major producers of this material predicted a 1c. to 1½c. per gallon increase in the price of butane before the first of the year. This estimate was based on the 50c. per barrel advance in crude, which last week was becoming more widespread. Meanwhile, supplie were reported to be still far short of current requirements, although most leading marketers were said to be making contractual deliveries in reasonable quantities on time. No new business was being accepted, however. Added to the increasing demand, which has been stepped up enormously during the past two years, the supply situation was further complicated by the drain on existing stocks by both commercial producers who add more butane to winter motor fuel and the government which has been asking for more and more aviation gasoline.

Heptane — This lighter fraction, though still not free, was said to be in better supply than most other derivatives in this section. Some producers were reported to be accepting outside business, as demand continued on a par with previous weeks. Tankcar quotations in group 3 for the industrial, 90-100 degree C. material ranged from 11¼c. to 11¾c. per gallon. In view of recent crude advances, a 1c. to 1½c. per gallon increase was viewed imminent.

Hexane—This material was also reported in better supply than most other lighter fractions. Prices were firm during the week at 12c. to 12¼c. per gallon, tankcars, group 3. However, an advance of 1c. to 1½c. per gallon was predicted by major trade sources within the next few weeks, the rise to compensate for the additional cost in crude oil.

Pentane—Predictions of a 1c. to 1½c. per gallon rise in the price of this material were unofficially forecast last week in view of the onset of a general 50c. per barrel increase in the price of crude. Quotations on this lighter fraction during the week ranged from 8c. to 10c. per gallon in tankcars, group 3, for the 28-38 degree C. industrial material. Supply-wise, a generally tight situation was said to prevail throughout the market. Demand was heavy.

Propane—A major group 3 producer of this material last week upped quotations on this material 1c. per gallon. The move was interpreted as reflecting the recent advances in the price of crude oil. Prices on the commercial grade in group 3 during the week ranged between 5½c. to 6½c. per gallon. The supply situation remained tight and some producers reported a lag of a week to ten days in shipments. The previously-heavy demand persisted.

Miscellaneous

Crude Oil—It was becoming increasingly evident last week that a 50c. per barrel increase would become a general reality throughout the petroleum industry within the next few weeks. Despite earlier resistance, several major producers capitulated during the week to previous advances in East Texas, Gulf Coast and California crude oil quotations. Among others, major producers of lower district Pennsylvania crude oil upped quotations 50c. per barrel to $5. Illinois crude was upped 50c. per barrel, and reports continued to stream in from other suppliers during the week of similar increases. The onset of the upward trend had become so evident by last week that several marketers of derivatives had already upped quotations on these products to allow for the increases in crude, notably a group 3 producer of propane and a leading Ohio marketer of petroleum derivatives. Still others were reported to be studying current schedules with an eye to upward adjustments within the next few weeks.

Abroad, the Dutch government last week reported on the state of the Netherlands Indies oil fields. In Borneo the plants and fields at Tarakan, which were totally destroyed during the war, were said to have been built up to such an extent by September that 21,700 metric tons of crude oil were produced during that month. The estimated production during 1948 was reported at 28,000 metric tons monthly. At Balikpapan, the refinery, which was a total loss at the end of the war, produced a total of 30,940 tons in September. By the end of next year, it was estimated that the capacity of the refinery would be 100,000 metric tons, a figure which tops the prewar capacity. In Sumatra the fields, plants and refinery installations at Pangkalan were still said to be unapproachable because they lie within Republican territory. Pladju production in September totaled 130,000 metric tons, with a monthly production of 280,000 tons expected by the end of 1948. Djambi fields were still unapproachable. Soengei Gerong was reported to be in small-scale production. In Ceram (Moluccas) installations were heavily damaged during the war and rehabilitation has not yet started. In Java the Tjepu area was said to be unapproachable, and approaches to Lidah and Krukah fields were only recently cleared. The Wonokromo refinery produced 6,000 metric tons of oil during November, a figure that was expected to be maintained throughout the coming year. In New Guinea explorations were reported to have been resumed and new roads were said to have been built to certain fields.

For Late Market Developments, See Page 4

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Oils, Fats and Waxes

Market for oils and fats was dull and easier last week. Trading was light and spotty as consumers were on the sidelines preferring to await developments following the sharp decline in tallow and greases. Prices of tallow declined 4 cents per pound and large consumers limited transactions to moderate quantities at the lower level. Additional offers at the decline were turned down and the market now favors buyers instead of sellers. Coconut oil was easier and declined 1 cent with buyers ideas well below asking prices. Copra market was temporarily stiffened by the purchase of 9,500 tons for government account, but eased off scoring net decline of $15 per ton for the week. Corn oil was inactive though steady. Inquiry was fair with offerings scarce. Crude cottonseed oil trading was practically at a standstill, as both bids and offers were conspicuous by their absence. Peanut oil remained steady, though offers for shipment were scanty and bids also were limited. Trading in crude soybean oil was restricted last week and prompt and future shipments were fractionally lower. Linseed oil was quiet, but firm with flaxseed. Consuming inquiry was materially reduced as is usual at this season. Recent trading it was reported has replenished inventories for requirements during the first quarter of next year. Tung oil was unsettled and the price was shaded fractionally for nearby delivery on firm bids. Reports from China continued to indicate a strong market for nearby and forward shipment.

Allocations of oils and fats were announced at 87,000,000 pounds for the first quarter of 1948 by the Department of Agriculture, compared with exports of 145,800,000 pounds during the same period last year.

Cottonseed Oil

Prices advances in bleachable cottonseed oil futures were materially reduced late in the week by heavy selling pressure which lifted hedges. Market reflected reports that oil allocations would be small for the first quarter of next year. Weakness in lard, grains and tallow also were contributing factors. Trading in crude cottonseed oil was practically at a standstill last week. There was a noticeable lack of buying interest, but offerings also were scarce and light sales were made at 26½c. per pound, tankcars, December and 26c. per pound, January, Valley basis. Some trading was reported at 25c. per pound for April shipment early in the week.

Memphis.—Crude cottonseed oil sold at 26½c. per pound, tankcars, December and 26c. January, Valley basis. Sales of crude soybean oil made at 26c.—December and 25½c., same basis. Cottonseed meal quoted at $97 per ton, Memphis, December, $96 for first half January shipment and $95, for last half. Cottonseed hulls steady at $18.50 to $19, bulk, Valley.

Prices of refined bleachable prime summer yellow cottonseed oil in tankcars on the N. Y. Produce Exchange for the week ended December 12, follow:—

	Sales	Cents per pound High	Low	Close
December	7	30.50	30.00	28.500@31.00
January	4	28.50	28.25	28.000@30.00
March	261	28.55	26.90	26.958
May	286	27.70	25.80	26.758
July	49	27.65	25.25	26.008
September	5	25.00	24.75	24.808
October	13	23.75	22.70	22.600@23.75

Total sales—835 tankcars.
Crude oil was sold at 26½c. per pound, tankcars, f.o.b. Valley, for December, and 26c., January.

Linseed Oil

While demand for linseed oil was quiet, the market remained firm for all positions, and reflected the strength in seed. Consuming interest for requirements for early next year was dull as recent trading has replenished inventories. Supplies of oil for prompt delivery were scarce and prices for December and January were unchanged and merely nominal. Raw oil was quoted at 33.60c. per pound, tankcars, for December and 33.10c. for January, while February-June delivery was available at 32.60c. per pound.

Advices from the Argentine stated that the Argentine government has authorized the payment of 30 pesos (peso valued at about 25c. U. S.) per 100 kilos to farmers for flaxseed at Buenos Aires. The price was the same as last year's schedule.

Flaxseed parity price was indicated at $4.09 per bushel, November 15, by the Department of Agriculture, against $4.04 per bushel October 15 and $6.90 per bushel, November 15, last year.

Minneapolis—Demand for oil was effectively cut back by the early-December increase in the spot price to 33.1c. per pound in zone 1 and

Market Trends

Prices Advanced

None

Prices Reduced

Acidless tallow oil, 1c. per lb.
Carnauba wax, 2c. to 3c. per lb.
Coconut oil, 1c. per lb.
Copra, $15 per ton.
Grease, 4c. per lb.
Lard, 1c. per lb.
Oleo oil, 2c. per lb.
Oleostearin, ½c. per lb.
Soybean oil, ½c. per lb.
Tallow, 4c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
249.1	256.3	242.6	282.6

(For Current Prices see Page 9)

crushers report only scattered small business for the last 10 days. The January basis of 32.6c. per pound failed to attract any business of consequence with the rank and file pretty well protected for the first month of the new year. Crushers continued to quote 32.1c. per pound for February forward, having little or nothing for sale during February and not particularly aggressive for March. Instructions continued excellent, buyers ordering out supplies in steady volume and apparently quite anxious to get oil in their tanks, despite the inventory period. Tanks were still difficult to get and crushers said that weekly movement would be heavier if the railroads could furnish needed supplies.

Shipments of linseed oil, in pounds, were as follows:—

	1947-48	1946-47
This week	6,000,000	6,250,000
Since Sept. 1	101,920,000	91,140,000

Flaxseed—Market quiet, but firm. Offers for all positions scarce and well held.

Minneapolis — Flaxseed was in the holiday doldrums, receipts in the local market the lowest since harvest started, producers showing little or no interest in marketing supplies on the 1947 tax basis and crushers just marking time as far as prices were concerned. Cash flax quoted at a firm $7 with all buyers interested in supplies. Arrive bids were at $7 a bushel but selling interest on the part of the farmers were extremely limited. Local stocks of flaxseed held at a high level, most of the seed unsold and promising to remain so until after January 1. It is expected that country offerings wil lincrease after the turn of the year.

Shipments of flaxseed in bushels were as follows:—

Bushels—	Receipts 1947-48	1946-47	Shipments 1947-48	1946-47
This week	333,200	227,800	88,000	54,400
Since Sept. 1	16,508,700	8,042,100	2,387,100	3,546,400

Other Vegetable Oils

Castor, Dehydrated—Business was reported spotty and mainly for immediate delivery. Market was unchanged and steady.

Coconut—This market was easier and prices were off 1c. per pound. Crude oil was quoted at 23c. per pound, tankcars, f.o.b. Pacific coast, December shipment, at 22c. for January and 21c. for February. Copra market was strengthened by the increased demand for government account. Following sales at $240 per short ton, c.i.f. Pacific coast December-January for private account, government purchases totaling 9,500 tons were reported ranging from $245 to $270, per long ton, f.o.b. Phillippines. Domestic crushers showed little interest in replacements and the market was entirely nominal at $250 per short ton, c.i.f. Pacific coast, a net decline of $15 for the week.

Corn—While buying interest was light, scarcity of offers of crude and refined kept this market in a firm position. Crude oil was reported sold at 29c. per pound, tankcars, f.o.b. mills and prices were steady thereat. Offerings of refined continued scarce and quotations were merely nominal at 33c. per pound tankcars, mills.

Oiticica—Demand was quiet and small quantities on the spot were held at former quotations.

Olive—Liberal offerings of new crop olive oil from Mediterranean country at wide range of prices, attracted little attention last week. Importers preferred to await further developments in view of the large oil production in those countries. Competition is keen at producing centers and prices for shipment of late have been received on a downward scale, but were still considered above importers ideas. Demand for oil on the spot was inactive and quotations were unchanged and nominal.

Palm Oil—The economic rehabilitation of Sumatra's east coast is making satisfactory progress it was disclosed last week by the news agency Ancta. About 100 estates have been brought under Dutch control. Palm oil and rubber production has been resumed.

Peanut—Trading in crude oil was active last week in the Southeast. Sales were reported ranging from the high of 28c. down to 26½c. per pound, tankcars, f.o.b. mills, for

For Late Market Developments, See Page 4

December-January shipment. Crushers are keeping sold up.

Rapeseed—Trading was spotty. Moderate quantities of semi-refined oil were held at 32½c. per pund, tankcars, New York, for prompt and nearby delivery. Argentine government announced the unchanged price of 30 pesos (peso about 25c. U. S. money) per 100 kilos to farmers in payment for rapeseed.

Soybean—Buying interest was light, and the market was dull and narrow during the week. Prices were easier. Crude oil was sold at 26c. tankcars for December and 25½c. for December, Valley basis. Some trading was reported at 22c. for April-June. Purchase of soybean oil by the Department of Agriculture were reported as follows: December 1, one buyers tankcar of crude oil at 28½c. per pound, f.o.b. mill, Wilson, N. C., and 80,000 pounds of hydrogenated oil at 35c. per pound, non-returnable drums, f.o.b. Edgewater, N. J.; December 2, 3 tankcars of crude oil at 28¼c. per pound, f.o.b. southern and western mills, and 2 tankcars of once refined oil at 30½c. delivered New York.

Prices of refined bleachable soybean oil, in tankcars on the N. Y. Produce Exchange for the week ended December 12, follow:—

	Sales	High	Low	Close
	Cents per pound			
December	..	....	....	26.60B
January	..	....	....	25.00B
March	1	24.50	24.50	27.70A
May	..	....	....	25.50A
July	..	....	....	25.27A
September	..	....	....	23.60N
October	..	....	....	23.00N

Total sales—One.

Tung—Demand was light and spotty. Tankcars were generally quoted at 27c. per pound, New York, for prompt and forward delivery, though prices were shaded and sales were reported ranging from 26½c. to 26¾c., and business was possible at the outside figure on a firm bid. Drums were quoted at 28¼c. to 28½c. per pound, carlots, as to seller. Reports from China indicated a strong market for prompt and forward positions. Offers for shipments were limited and firmly held.

Fats and Greases

Greases—Market was easier and decline 4c. per pound with tallow. Offerings were heavy, with inquiry light, producers accepted lower bids. Trading was reported for moderate quantities and additional offers at the decline were not taken. House was quoted at 21¼c. per pound, loose, works; choice white 23c. a pound, yellow 21½c., same basis.

Lard—This market developed a weaker tone and was sharply lower with the easiness in competing fats. Trading was inactive and quotations were more or less nominal. Cash lard was quoted at 25½c. per pound, tierces, Chicago.

Tallow—Prices broke sharply last week and scored net decline of 4c. per pound. Large consumers purchased moderate quantities and turned down additional material at the decline. Offerings were quite liberal especially for the lower grades. Fancy was sold at 23c. per pound, loose, works; extra, 22¾c. and special, 22½c. per pound, same basis. Department of Agriculture allocated 240,000 pounds of inedible tallow to Cuba for commercial procurement in place of an equivalent quantity of coconut oil previously allocated.

Animal Oils

Degras—Market was unchanged with demand limited to small lots for immediate needs. Prices ruled steady.

Grease Oil—This market was unsettled as a result of the decline in tallow and grease. Prices, however, were unchanged and more or less nominal. Trading was quiet.

Neatsfoot Oil — Business continued confined to immediate needs. Prices were unchanged and merely nominal, depending upon quality.

Oleo Oil — Demand was less active and quotations were unchanged and nominal. Extra was quoted at 30c. to 31c. per pound, tierces.

Oleo Stearine—Weakness in basic materials was reflected in this market and quotations were off about 1c. per pound. Tierces were quoted at 28½c. to 29c. per pound, as to seller.

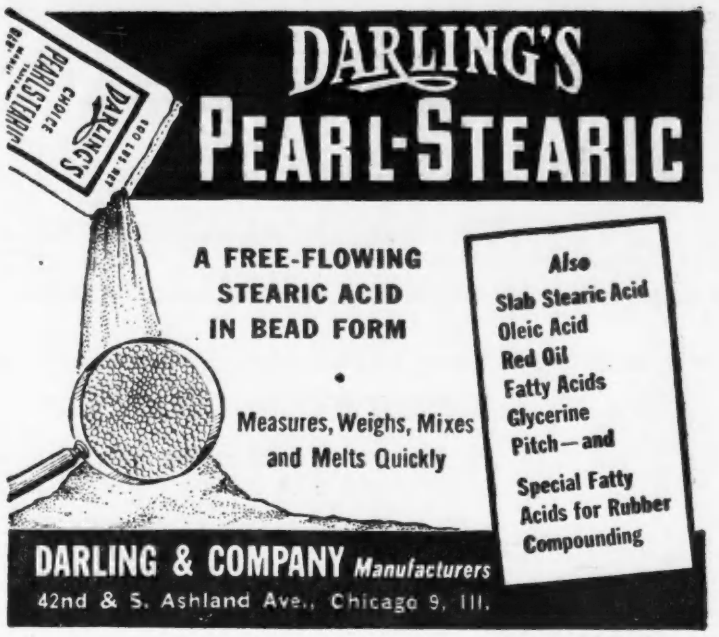
Tallow Oil—Consuming interest was slow and the market easier. Acidless was quoted at 33½c. to 34c. per pound, as to seller.

Fish Oils

Cod—Market continued steady in view of scarcity of supplies here and for shipment. Business was slow. Prices were unchanged and nominal at 22c. to 24c. per pound, drums, as to delivery. Arrivals at New York totaled 310 drums and 93 drums and 57 casks at other Atlantic ports.

Menhaden—Business was inactive, but the market remained steady at former quotations. Supplies of refined were not heavy and were closely held.

Sardine — Consuming interest was restricted to small lots for actual needs. Mar-



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ket was steady. Refined grades were well held at current levels. Crude was scarce and nominal at 23c. to 24c. loose, f.o.b., Pacific coast.

Los Angeles — Trading in the sardine oil market was slow. Demand excellent. Oil was quoted at 24c. per pound. California Sardine Products Institute reported 95,087 tons were landed up to November 27, compared with 157,893 tons, a year ago.

Fatty Acids

Some 176,000 pounds of soybean fatty acids were allocated to Switzerland last week for commercial procurement in place of an equal quantity of soybean oil previously allocated by the Department of Agriculture.

Red Oil—Trading slackened following the break in tallow and greases. Prices of red oil were unchanged owing to the sold up production. Consumers practically withdrew from the market preferring to await the course of basic materials.

Stearic Acid — Consuming inquiry was slow, though deliveries against former contracts were in good request. Quotations of all grades were unchanged, fairly steady.

Cake and Meal

Cottonseed Meal—Market firm with best demand still centered in states west of Mississippi River. Sacked 41 percent traded in volume this week at $91, f.o.b. Georgia mills for shipment to Illinois and farther west. This unusual movement can only be attributed to short supply among Valley mills. South Carolina sold at $92 and also in North Alabama at this figure. Cottonseed meal is in a most favorable statistical position as far as stocks on hand are concerned and there are no offerings pressing on the market.

Linseed Meal—Prices were advanced $2 per ton under improved demand.

Minneapolis—Meal demand was quite broad and prices were $2 higher for the week, per ton bulk, spot in carlots, was moved to $88 per ton. Buyers were quite aggressive for supplies and bid the market up. Crushers were offering meal sparingly at $86 for January shipment with an additional dollar discount for February.

Shipments of linseed meal, in pounds, were as follows:—

	1947-48	1946-47
This week	11,040,000	8,160,000
Since Sept. 1	164,760,000	116,020,000

Peanut Meal—During the past five days an enormous tonnage of peanut meal has been sold by Alabama-Georgia crushers, mostly the 41 percent grade, at $80 per ton, sacked for shipment December through March. Being $10 to $15 cheaper than cottonseed and soybean meals, it was rapidly absorbed by the feed trade from coast to coast. Mill offerings have just about dried up and prices were firmer with December and January positions having advanced $1.50 to $2 per ton. Scattered small lots of sacked 45 percent offered at $87.50 to $88, f.o.b. Georgia-Alabama mills for spot shipment only.

Soybean Meal—Demand continues quiet. Sacked 45 percent was offered at $92.50 f.o.b. Alabama-Georgia mills, and at $93 f.o.b. North Carolina points for December forward shipment. At the lower prices of peanut meal, a good many feed mixers are expected to materially reduce amount of soybean meal in their formulas.

Waxes

Carnauba — Lower market for shipment created a weaker tone in the spot situation and quotations declined for all grades. Buying interest was lacking for spot and nearby replacements. Chalky, No. 3 was quoted at 76c. to 78c. per pound; North country, No. 2, 84c. to 85c. and No. 3, 78c. to 79c. per pound. Refined was named at 84c. and yellow was sold at $1.44 and $1.45 per pound.

Ouricury—Prices were firmer and slightly higher. Crude was sold at 63c. per pound on the spot and refined was held at 70c. to 71c. per pound, as to quantity.

E.G. Reuther Recuperating

Edward G. Reuther, New York manager of the Bisbee Linseed Company, Philadelphia, is recuperating at his home, 87 Thoma avenue, Maywood, N. J., following his discharge on December 9 from the Hackensack hospital, where he had spent two months and undergone two major operations.

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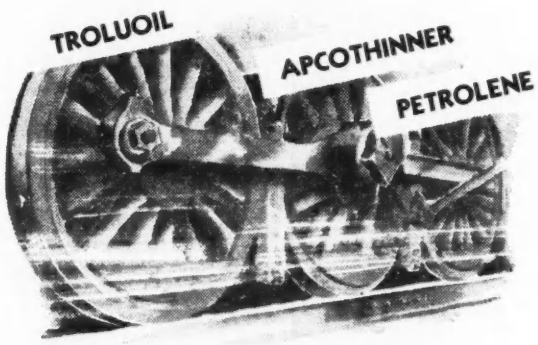

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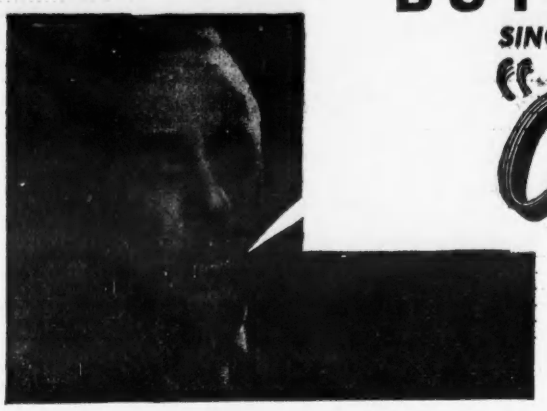

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2—Day, size D, 600 lb. MIXERS, M.D.
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1—Gedge Gray 1,000 lb. horizontal MIXER, reduction drive.
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1—500 gal. Dopp JACKETED KETTLE.
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1—350 gal. Copper Jack. agit. Closed KETTLE OR VAC. STILL.
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1—Buflovak 6' dia., Vacuum Type.
2—Buflovak 6' Atmospheric.
3—Swenson Walker Continuous, 24" x 20'.

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1—Pfaudler 700 gal. glass-lined jacketed Kettle.
1—New Dopp 150 gal. Jacketed, Agitated Kettle, Vertical, jacketed blades.
1—Blaw-Knox Ductiweld 100 gal. Steel Jacketed, Agitated Kettle, 125 lb. jacket pressure, 150 lb. internal pressure.
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1—Eppenbach Colloid Mill, stainless steel, ½ HP.
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Technical sales — opportunity with nationally prominent manufacturer of paint raw materials. New York Metropolitan area. Prefer man under 30 with some technical knowledge of paint industry, combined with sales ability. Write in detail giving complete background, including education, business experience, and required starting salary. Enclose recent photo if available. OPD 238.

Plant Chemist—well-known manufacturers of aromatic chemicals require a thoroughly experienced chemist to run their plant. They need a man of responsibility and executive ability. Scientific background, knowledge of production and well-developed processes are essential. We advised our present staff of this and your reply should be made in detail and confidence. OPD 274.

Sales manager—unusual opportunity with reputable manufacturer of aromatic chemicals, essential oils and compounds. Salary and commissions. Must be familiar with trade and command following. Give complete details. Confidence assured. Our sales force know of this ad. OPD 275.

Wanted—Distributors and salesmen with knowledge of sanitation and agricultural chemicals. Several important territories open. State full details. Our staff knows of this advertisement. OPD 278.

POSITIONS WANTED

For plant managers, production supervisors, engineers, research chemists, bacteriologists, analysts, pharmacologists, salesmen, sales managers, and technically trained executives, call or write Chemical Department, Position Securing Bureau, Inc. (Agency), 45 John Street, New York City. Telephone COrtlandt 7-9650.

Export manager: 12 years experience, large following throughout world, financially responsible, able executive, wants position with chemical and/or dyestuff manufacturer, interested in developing export trade. OPD 253.

Young and capable executive with chemical and pharmaceutical college training seeking position preferably in Middle Atlantic states. Experienced in manufacturing, development, analysis, control, packaging, personnel, purchasing, technical correspondence, labeling requirements and relations with F.D.A. and other government agencies. OPD 254.

Production chemist: 12 years experience manufacture fine chemicals—alkaloids, bismuth salts, salicylates, etc. Knowledge equipment, control, handle records and men. Capable charge unit or small plant. OPD 256.

Chemist, Ph.D., 39, twelve years experience in diversified chemical laboratories in U. S. and Italy. Extensive acquaintance with Italian laboratories, drug manufacturers, agricultural and medical circles. Desires responsible technical or sales position with progressive company, interested in Italy. OPD 262.

Sales and administration—13 years experience with basic chemical producer; Navy officer combat veteran; age 35; knowledge French, Spanish, Italian; domestic and foreign travel background; University graduate; capable planning, promotion and negotiation. Salary—$10,000. OPD 270.

Salesman—Paints, varnishes, shellacs; over 25 years' selling experience with large following and established trade in the metropolitan area among leading jobbers, retail paint stores, parquet floor supply houses, etc., wishes to connect first-class manufacturer. OPD 280.

SELECT!

CENTRIFUGALS
8—DeLaval No. 600 Oil Purifiers, steel bowl & discs.
2—Sharples No. 6 Super Pressuretite.
COLUMNS
1—Ether column, 4'6" dia., 236 sq. ft. approx. 22'0" high, with dephlegmator approx. 5'.
1—Alcoholizer column, 14' high, 12 plates oval shape, 32"x36" dopper.
1—Distilling column, 8'4" dia. to 10' dia. x 69' high, 19 plates with C.I. bubble caps.
CONDENSERS
2—Worthington 29" dia. x 11' C.I. heads, steel shells & brass tubes, 1,150 sq. ft.
1—Steel shell 24" dia. x 9' long, copper tubes, 342 sq. ft.
FILTERS
1—Oliver Rotary, 3'x4', lead lined.
1—Oliver Rotary, 8'x8', rubber lined.
1—Oliver Rotary, 6'x4', acid resistant.

2—Oliver-Sweetland No. 5 Filter, 20 bronze leaves, 3" centers. NEW.

1—C.I. 30"x30" recessed plate press, 35 plates.
1—Sperry 30"x30" bronze plate and frame press.
2—Shriver 30"x30" wood plates and frames.
2—SPARKLER 18-D-4, stainless steel, NEW.

LABELERS — REBUILT
SEMI & FULLY AUTOMATIC

MILLS
2—Thropp, plastic or rubber, 30".
2—Ross, paint, 16"x40".
1—Stedman, Hammer Mill type BX with 20 HP motor.
MIXERS
10—Gemco powder blenders, copper construction, conical shape, 25, 50, 300 & 500 lbs.
3—Day, double ribbon spiral powder mixers, 50, 600 & 200 lbs. cap.
1—Read, heavy duty, jacketed & tilting type 5 bbl., with double arm & kneader bars.
PRESSES—TABLET
5—Colton rotary No. 2; 16 punch head will take up to ⅝" tablet.
9—Stokes rotary D4; 16 punch head to 1" tablet.
KETTLES
1—500 gal. Dopp kettle, jacketed & agitated.
1—Steel kettle, 350 gal., 2/3 jacketed, excellent condition.
1—Aluminum kettle, 300 gal., 2/3 jacketed, open top.
1—Pfaudler, glass lined kettle, 100 gal., jacketed, agitated & tilting.
12—NEW stainless steel kettles, 50, 100, 150, 200 & 300 gals., 2/3 jacketed & open top.
14—COPPER KETTLES, Jacketed, 25, 50, 80, 100 & 500 gals. cap.
STILLS
2—Copper vacuum, jacketed & double acting scraper & finger agitator, 100 gal. capacity.
2—Water stills, 75 & 250 GPH. Excellent condition.

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Mixer: 5,000 lb. Day, dry powder, with sifter and 20 hp. motor.
Filters: Oliver 8 x 10', 8 x 12', 6 x 4'.
Mixers: Jack ribbon type, 80, 160 gal.
Vacuum Pans: Kilby 11' cast iron.
Kettles: 60 and 100 gal. stain. steel.
Fillers: Siphon type bottle and can.
Mixer: 40 gal. Day pony, 1-speed.
Labeler: World rotary automatic.
Filters: Alsop stain. steel, 2,400 GPH.
Autoclave: Pfaudler 1 gal., 1,000 lb.
Filler: Triangle SPA volumetric.

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1—Pfaudler Horiz. Stainless Steel, Jack. Tank, 6,000 gals., with Ag.
1—Swenson Rotary Filter, 8' x 8', Rubber Lined and accessories.
1—Day 40 gal. 2-Speed Pony Mixer, Motor Drive.
2—Sweetland No. 5 Filters, 20 Bronze Leaves.
1—Shriver 12" Aluminum Filter Press.
1—Shriver 18" C.I. Filter Press, 21 Chambers.
1—Buffalo 24" x 36" Atmos. Double Drum Dryer.
1—Premier 10" Paste Mill, 25 H.P. Motor.
2—Abbe Pore. Lined Pebble Mills, 50 and 70 gals.
1—Stokes DD-2 Rotary Tablet Machine.

20,000 ft. of Roller Conveyor 18" to 30" widths and many other items.
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Bids Wanted

Aluminum sulphate, 1,760,000 pounds. Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8836, December 19.

Aromatic fluid, type III, 10,000 gallons, Joint Army-Navy Petroleum Purchase Agency (Washington 25, D. C.) invitation 9, December 22.

Castor oil, 500 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 81, January 5.

Compressed gases, carbon dioxide, nitrous oxide, oxygen, as required from January 1 through 31, 1948, Army Medical Corps, General Distribution Depot (Schenectady, N. Y.) invitation MD-1, December 18.

Cottonseed oil, 2,500 gallons, Army Chemical Center, Md., invitation 185, December 19.

Drugs and chemicals, including p-dimethylamino-benzaldehyde, saponin, sodium phosphate, sodium glycerophosphate, sodium sulphate, hydrochloric acid, sulphuric acid, ammonium sulphamate, Veterans Administration (Washington 25, D. C.) invitation A-75, December 19.

Ferric sulphate, 215,050 pounds, Army Air Corps (Wright Field, Dayton, Ohio) invitation 528, December 23.

Fungicide, copper, 8,000 pounds, Department of Agriculture (Washington, D. C) invitation 360-48, December 18.

Ink, stencil, 440 gallons, Army Chemical Center, Md., invitation 192, December 23.

Lacquer, 675 gallons, Quartermaster General of the Marine Corps, Navy Department (Washington 25, D. C.) schedule 298, December 23.

Liming material, Department of Agriculture (Washington, D. C.) invitation 375-48, December 18.

Milk powder, 130,000 pounds, Army Quartermaster Purchasing Office (Chicago 9, Ill.) invitation 219, January 6.

Motor fuel, region 1, as required from March 1, 1948, through August 31, 1948, Bureau of Federal Supply (Washington 25, D. C.) invitation 99-G-9676-R, December 19; region 2, invitation 9G-9677-R, December 22.

Nitric acid, 116,520 pounds, Army Air Corps (Wright Field, Dayton, Ohio) invitation 540, January 2.

Nitrocellulose, 50,000 pounds, Army Ordnance Department (Dover, N. J.) invitation 59, December 18.

Paint, enamel, 440 gallons, Army Chemical Center, Md., invitation 192, December 23; 38,200 gallons, Quartermaster General of the Marine Corps, Navy Department (Washington 25, D. C.) schedule 298, December 23.

Paint, various, approx. 610 gallons, Army Chemical Center, Md., invitation 182, December 18; 200 gallons, Bureau of Federal Supply (Marietta, Ga.) invitation 06-5745, December 16; 680 gallons, Army Engineers Corps (Chicago 5, Ill.) invitation 104, December 16; 56,475 gallons, Quartermaster General of the Marine Corps, Navy Department (Washington 25, D. C.) schedule 298, December 23; 12,800 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 77, December 29.

Paraffin, 7,017 pounds, Army Air Corps (Wright Field, Dayton, Ohio) invitation 516, December 18.

Penicillin, crystalline, 455,000 bottles, 200,000 units each, Army-Navy Medical Procurement Office (Brooklyn 1, N. Y.) invitation 329, December 22; 500,000 bottles, 200,000 units each, and 500,000 bottles, 500,000 units each, various deliveries, Veterans Administration (Washington 25, D. C.) invitation A-73, December 16.

Red lead, dry, 9,000 pounds, Quartermaster General of the Marine Corps, Navy Department (Washington 25, D. C.) schedule 298, December 23.

Soap, toilet, 11,000 gallons, Federal Works Agency (Washington 25, D. C.) invitation 1241-12-22-2, December 22.

Shellac, orange, 1,000 gallons, Army Engineers Corps (Chicago 5, Ill.) invitation 104, December 16.

Sodium silicate, 12,600 pounds, Bureau of Engraving and Printing (Washington 25, D. C.) invitation BEP-417, December 19.

Superphosphate, 18%, 19%, or 20%, Department of Agriculture (Washington, D. C.) invtation 344-48, December 16.

Triacetin, 10,000 pounds, Army Ordnance Department (Dover, N. J.) invitation 60, December 18.

Trisodium phosphate, 3,000 pounds, Bureau of Federal Supply (Marietta, Ga.) invitation 06-5766, December 18.

Varnish, 2,000 gallons, Quartermaster General of the Marine Corps, Navy Department (Washington 25, D. C.) schedule 298, December 23; lithographic, 4,000 pounds, Bureau of Engraving and Printing (Washington 25, D. C.) invitation BEP-420, December 19.

Vegetable oil, edible, 204 gallons, Bureau of Federal Supply (Seattle 4, Wash.) invitation BFS-SE-217, December 19.

Trade Briefs

Lion Oil Company has announced completion of four new wells in the West Texas area.

Shell Transport & Trading Company, London, has received authorization to increase its capital by £10,000,000 to finance expansion of its facilities.

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INDOPOL

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The INDOPOLS are synthetic high molecular weight mono-olefins. They are light in color—stable—compatible with waxes, natural and synthetic rubbers, solid polybutenes, etc.—miscible with hydrocarbon and chlorinated hydrocarbon solvents—miscible with many ethers and esters—insoluble in the lower alcohols and ketones.

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Brand Name	Indopol L-10	Indopol H-100	Indopol H-300
Mean molecular weight	330	780	940
Viscosity S.U. seconds			
at 100°F.	114	—	—
at 210°F.	40.6	942	3330
Specific gravity 60°/60°F.	.831	.881	.894
Refractive index (20/d)	1.465	1.492	1.496
Color, N.P.A.	2	2	3
Pour point (ASTM)°F.	—65	+20	+35
Weight, lbs./U.S. gallon	6.92	7.34	7.44

Intermediate grades and their viscosity S.U. seconds at 210°F. are L-50 (68 sec.), L-100 (94 sec.), H-35 (377 sec.) and H-50 (540 sec.).

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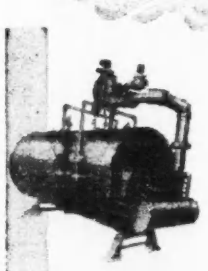
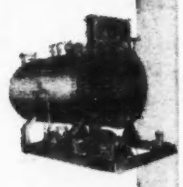
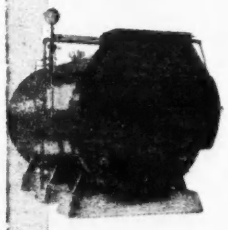
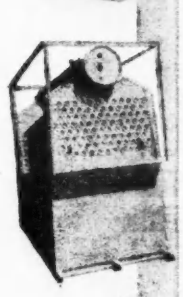

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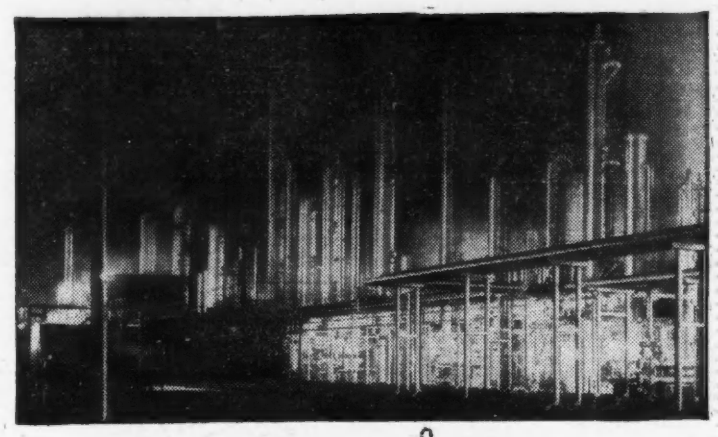

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